

WELCOME

REMIND ME TO RECORD SESSIONS

If there is a network drop out, I will return!

- 1. Your final project presentation December 7, 2021**
- 2. Next Week – You talk for 10 minutes or less. Have slides please and turn in your report.**

Evaluations – 15 minutes

Here is a link for more information on adding a link to the course evaluations that might help

<https://www.uhcl.edu/computing/course-development/documents/support/faculty/left-menu-eval-link-2018.pdf>

<https://apps.uhcl.edu/OnlineEvals/Auth/Login?ReturnUrl=%2fOnlineEvals>

ROS2 Security A Good Video with Sid Faber and Construct

How to Enable and Use Security in ROS 2 | Sid Faber | ROSDevDay 2021

145 views Jul 27, 2021 SID 51:29

<https://www.youtube.com/watch?v=UJa4XWRA6EY>

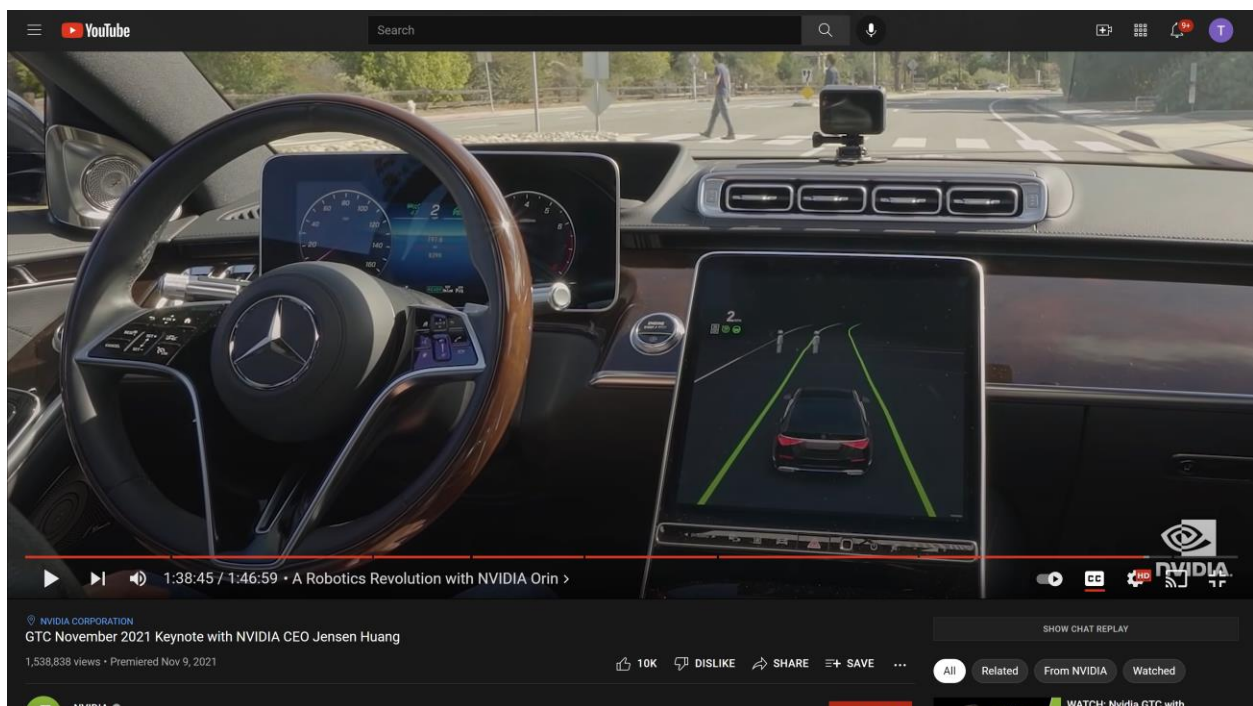
The ROS Developers Day (<http://www.rosdevday.com/>) virtual conference was successfully held on Jun 19, 2021. Starting July, we will be posting weekly a recap video of the conference presentations. ROS Developers Day is an annual hands-on robot programming online event for ROS developers worldwide. This virtual conference aims to connect ROS developers from around the world to Practice, Learn, and Share the latest ROS applications together in real-time, regardless of geographical limitations. Learn about the annual event here: <http://www.rosdevday.com/> #ROSDevDay #ROSdevelopers #ROS

Nvidia Keynote Speech – The future of AI? 1:46:59

<https://www.nvidia.com/gtc/keynote/>

NVIDIA CEO Jensen Huang kicks off #GTC21 on November 9, 2021 with a keynote that presents the latest breakthroughs in #AI, data science, high performance computing, graphics, edge computing, networking, and autonomous machines. Deep dive into announcements and discover more content at <https://www.nvidia.com/en-us/gtc/> 0:00 Sessions at GTC 2021 November 13:00 The Magic of Accelerated Computing 30:51 Next-Gen Networking, Cloud Computing, and Cybersecurity 39:28 Accelerating Science by a Million-X 49:24 Building Virtual Worlds with Omniverse 1:01:10 Transforming Industries with AI 1:18:56 Omniverse Avatar for Intelligent Virtual Assistants 1:24:29 A Robotics Revolution with NVIDIA Orin 1:41:16 NVIDIA Announcement Summary

1:24 Robotics Revolution with NVIDIA



Real-time control in ROS and ROS 2.0

<https://roscon.ros.org/2015/presentations/RealtimeROS2.pdf>

Exploring the Performance of ROS2 Yuya Maruyama

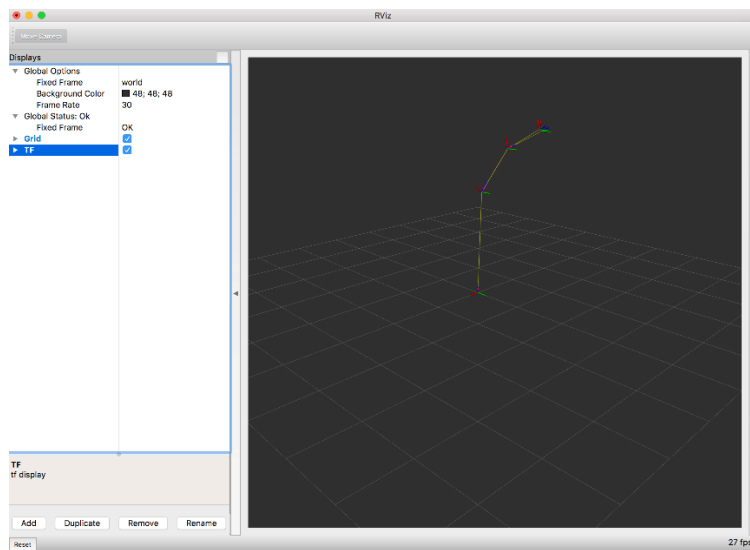
ExplorePerformanceOfROS2_Maruyama_2016_ieee.pdf

Real-time programming in ROS 2 Foxy Tutorials

Table of Contents

- [Background](#)
- [Install and run the demo](#)
 - [Run the tests](#)
 - [What the heck just happened?](#)
 - [Adjust permissions for memory locking](#)
 - [Output overview](#)
 - [Latency](#)
 - [Setting permissions for the scheduler](#)
 - [Plotting results](#)

<https://docs.ros.org/en/foxy/Tutorials/Real-Time-Programming.html>



<https://docs.ros.org/en/foxy/Tutorials/dummy-robot-demo.html>