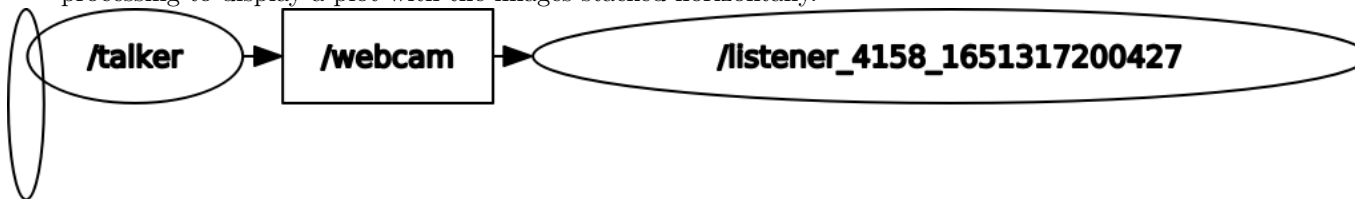


MRT Elec & Software Assignment 1 Report

Aditya Choudhary

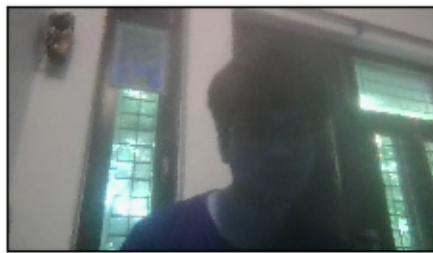
April 2022

The assignment given was based on using ROS to create a publishing node and a subscriber for it to transmit messages in form of images. The task was accomplished by using cv-bridge a ROS package used to convert ROS image messages to and from the data in the format used by OpenCV. We had to use video feed from a source (in my case webcam) and analyse the frame to detect edges by Canny Edge Detection method. The publishing node named talker published the image message after conversion using cv-bridge to the rostopic 'webcam'. This topic was subscribed by the listener node which received the image, converted it to OpenCV format and did the image processing to display a plot with the images stacked horizontally.



The rate for the publisher was chosen to be 20Hz and the pause argument in the plot was taken to be 0.05 seconds.

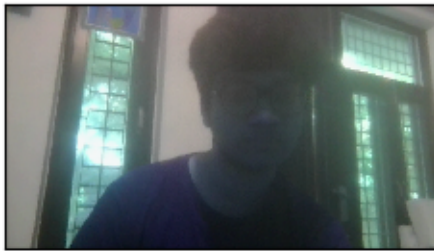
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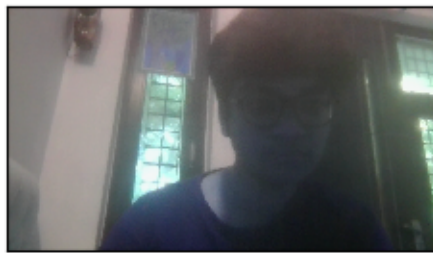
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