DPRG RBNV Chat Record – May 31, 2022

Carl Ott
8:08 PM

~8:03pm - David Anderson gave an update - showing a video of his robot - running some test patterns - driving a triangle - once where hits a waypoint and spins in place, and again when it drives through the waypoints without stopping - even if obstacles show up in the way……

Carl Ott
8:10 PM

all using wheel odometry and a z-axis rate gyro
Gold Star for David…

Carl Ott
8:14 PM

~8:13pm - Doug P - something for folk looking at RoboColumbus components. In this case - an open source Cone Detection system - reference https://github.com/MarkDana/RealtimeConeDetection

Doug Paradis
8:18 PM

Traffic Cone dataset: https://github.com/MarkDana/RealtimeConeDetection

Carl Ott
8:19 PM

Overview of the YOLO Object Detection Algorithm https://odsc.medium.com/overview-of-the-yolo-object-detection-algorithm-7b52a745d3e0

YOLO — You only look once, real time object detection explained https://towardsdatascience.com/yolo-you-only-look-once-real-time-object-detection-explained-492dc9230006

Carl Ott
8:20 PM

YOLO: Real-Time Object Detection Explained Learn all about the YOLO algorithm for object detection and start training your own models using personalized datasets. Read time 9 min read · May 26, 2022 https://www.v7labs.com/blog/yolo-object-detection

Carl Ott
8:24 PM

some articles on YOLO implementations: YOLO Object Detection with OpenCV and Python https://towardsdatascience.com/yolo-object-detection-with-opencv-and-python-21e50ac599e9 YOLO object detection with OpenCV https://pyimagesearch.com/2018/11/12/yolo-object-detection-with-opencv/

Carl Ott
8:30 PM

John G discussed using Tesseract for Optical Character Recognition - doing better than the open ALPR system. ref https://github.com/tesseract-ocr/tesseract

Carl Ott
8:35 PM

~8:34pm- John G showed

Carl Ott
8:37 PM

showed a contour of license plate - and how the contour is slightly rotated with respect to the plate, which then throws off the de-warping and eventually adversely impact license plate OCR see ~ 8:36

Carl Ott
8:45 PM

Here's an article on building your own OCR models / using license plates as an example. Building Custom Deep Learning Based OCR models by Anuj Sable 16 days ago 13 MIN READ https://nanonets.com/blog/attention-ocr-for-text-recogntion/

Carl Ott
8:52 PM

~8:51pm - Michael - questions about Roborama... how to get started...

Carl Ott
9:02 PM

~9:00pm - David A showed an approach from long ago to collect cans - with a wide arm and sticky tape

Carl Ott
9:05 PM

~9:05pm - Showed progress with his Coffee Bot

Carl Ott
9:07 PM

improvements to the cup grabbing mechanism...

Carl Ott
9:08 PM

Gold Star for Jack- working robot to grab a cup

Carl Ott
9:19 PM

~8:14pm - David A- showed tennis players catching balls with a racket.
which prompted looking for ball juggling robots like
this https://www.youtube.com/watch?v=9asDO_1A27U

David Anderson
9:20 PM

Carlos Alcaraz catches ball with racket:
https://www.youtube.com/watch?v=SpPONWbuOAA
Roger Federer catch:

Carl Ott
9:21 PM

~9:20pm - Michael showed improvements in queue for his Space Station look-a-like man-cave

David Anderson
9:21 PM

Federer:
https://www.youtube.com/watch?v=6_dVMG1Ksck

Carl Ott
9:22 PM

Human robot catching & throwing balls... https://www.youtube.com/watch?v=83eGcht7IiI

Carl Ott
9:31 PM

~9:24pm - John G showed a robot playing darts - automatic bullseye, moving dartboard -

John Gauthier
9:31 PM

https://www.alphavoice.io/video/mark-rober/automatic-bullseye-moving-dartboard

7 photons
9:44 PM

I've got to go. See you all next week.

John Gauthier
9:56 PM

here's the link to my automated LPR Camera

https://github.com/zizumara/LPRCam