

1. Mobile Robots Examples

9/22/2016

Shakey and STAIR

<https://www.youtube.com/watch?v=qXdn6ynwpil>

Shakey Video

<http://stair.stanford.edu/>

Announcement

Turtlebot

<https://www.youtube.com/watch?v=MOEjL8JDvd0>

Willow Garage

MIT Turtlebots cooperate

<http://www.latimes.com/food/dailydish/la-dd-mit-beer-robot-20150817-story.html>

One good application of turtlebot - Follower

<https://www.youtube.com/watch?v=roZ6DV8INZc>

Introducing Yujin Robot's Kobuki

<https://www.youtube.com/watch?v=t-KTHkbUwrU>

Gazebo

http://wiki.ros.org/turtlebot_gazebo/Tutorials/indigo/Explore%20the%20Gazebo%20world

<http://learn.turtlebot.com/>

<http://wiki.ros.org/kobuki/Tutorials/Kobuki's%20Control%20System>

Hotel Robots

<http://www.savioke.com/>

Husky

<http://www.clearpathrobotics.com/husky-unmanned-ground-vehicle-robot/> Specs

<https://www.youtube.com/watch?v=85tOYjuPO1s>

Video at NI week 2011

<https://www.youtube.com/watch?v=N95z3OIDSDU>

Husky and RViz - note skid turning

2. Rodney Brooks

<http://people.csail.mit.edu/brooks/index.html>

Home page – VIEW THIS

READ THIS

https://en.wikipedia.org/wiki/Subsumption_architecture

Control of Mobile Wheeled Robots (MWR)

http://www.robotplatform.com/knowledge/Classification_of_Robots/Holonomic_and_Non-Holonomic_drive.html

Wheeled Mobile Robots Introduction and Kinematic Modeling

Prof. Alessandro De Luca

http://www.dis.uniroma1.it/~deluca/rob1_en/16_MobileRobotsKinematics.pdf

Video Courses

https://www.youtube.com/watch?v=-6Njz_BB6iM Magnus' Swarms

Published on Feb 3, 2015

A swarm of robots might be something you could see on a Doctor Who episode but, it is definitely something you will find in Dr. Magnus Egerstedt office. Learn more on how Egerstedt gets lots and lots of robots do cool things together".

<https://www.coursera.org/course/conrob> Magnus Egerstedt Mobile Robots Control

<https://www.youtube.com/watch?v=aSwCMK96NOW> Beginning of Course

Control of Mobile Robots-1.1 Control of Mobile Robots

Scholarly Articles

MODELING AND CONTROL OF A 4-WHEEL SKID-STEERING MOBILE ROBOT†

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<http://matwbn.icm.edu.pl/ksiazki/amc/amc14/amc1445.pdf>

All the math you would ever want to know!

Obstacle Avoidance and Path Following Control of a WMR used as Personal Robotic Assistant

A. Filipescu, I. Susnea, V. Minzu, G. Vasiliu and S. Filipescu

<http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=5547828>