

1. MobileRobots Examples

1/17/2016

Shakey and STAIR

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

Skakey 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>

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 RVlz - 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>

ROBOT OPERATING SYSTEM ROS

ROS WATCH THESE

Tully Foote Published on Aug 26, 2013

Tully Foote describes why they created ROS, new ROS initiatives as well as describes his participation in the DARPA challenges and shows an affordable personal robot - Turtlebot - that uses Microsoft Kinect and utilizes ROS for its basic functions.

<https://www.youtube.com/watch?v=xCiOY9Vplek>

READ THESE

ROS: an open-source Robot Operating System

Morgan Quigley_, Brian Gerkeyy, Ken Conleyy, Josh Fausty, Tully Footey,

<https://www.willowgarage.com/sites/default/files/icraoss09-ROS.pdf>

UPDATE FOR ROS

<http://spectrum.ieee.org/automaton/robotics/robotics-software/ros-robot-operating-system-celebrates-8-years>

By Brian Gerkey Posted 9 Dec 2015 | 23:35 GMT

GIT Git is an open-source version control system that was started by Linus Trovalds – the same person who created Linux.

<http://www.howtogeek.com/180167/htg-explains-what-is-github-and-what-do-geeks-use-it-for/>

<http://git-scm.com/book/en/v1/Getting-Started>

<http://git-scm.com/book/en/v1/Git-Basics>