

Robot Vision S PhD course spring

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Goals

- System design and progra
 - -OpenCV 3.0 rc1
 - -ROS (robot operating system
- focus part 1: visual compu
 - basically same as OpenCV c
 - –platform for own computation estimation methods
 - -own vision models and visua
- combining with high-level is by OpenCV in the project



Goals

- lectures concentrate on the data structures and how to and extend those
- focus part 2: robot vision s
 - -distributed computing with Ro
 - -efficient use of OpenCV in Ro
- access to robotic hardward the course – make use of resources from your lab
- simulation as fallback



Prerequisi

- solid background in
 - –mathematics (linear algebra, methods)
 - -signal/image processing
 - -computer vision
 - -C++ programming
- own laptop with internet admin rights to install softward
- camera supported by Ubu (15.04?)



Organizati

- lectures
 - -core features of OpenCV 3.0
 - -systems basics in ROS Indig
- seminars
 - -participants present topics
 - -one seminar presentation red
- exercises
 - -installation of OpenCV and R
 - -going through essential first s
- project (example application



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