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Documentation Status

hector_slam: hector_compressed_map_transport (/hector_compressed_map_transport?distro=kinetic)
| hector_geotiff (/hector_geotiff?distro=kinetic) | hector_geotiff_plugins (/hector_geotiff_plugins?
distro=kinetic) | hector_imu_attitude_to_tf (/hector_imu_attitude_to_tf?distro=kinetic) |
hector_map_server (/hector_map_server?distro=kinetic) | hector_map_tools (/hector_map_tools?
distro=kinetic) | hector_mapping (/hector_mapping?distro=kinetic) | hector_marker_drawing
(/hector_marker_drawing?distro=kinetic) | hector_nav_msgs (/hector_nav_msgs?distro=kinetic) |
hector_slam_launch (/hector_slam_launch?distro=kinetic) | hector_trajectory_server
(/hector_trajectory_server?distro=kinetic)

Package Links

- Tutorials (/hector_slam/Tutorials)
- FAQ (http://answers.ros.org/questions/scope:all/sort:activity-desc/tags:hector_slam/page:1/)
- Changelog (http://docs.ros.org/kinetic/changelogs/hector_slam/changelog.html)
- Change List (/hector_slam/ChangeList)
- · Reviews (/hector_slam/Reviews)

Dependencies (12) Jenkins jobs (6)

Package Summary

✓ Released ✓ Documented

The hector slam metapackage that installs hector mapping and related packages.

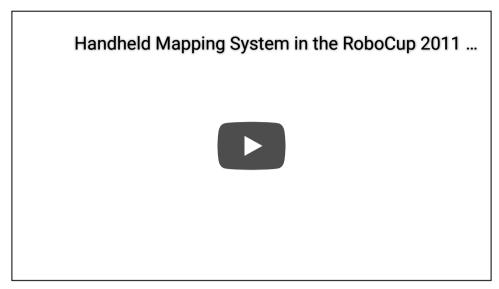
- · Maintainer status: maintained
- Maintainer: Johannes Meyer <meyer AT fsr.tu-darmstadt DOT de>
- Author: Stefan Kohlbrecher <kohlbrecher AT sim.tu-darmstadt DOT de>, Johannes Meyer
 <meyer AT fsr.tu-darmstadt DOT de>
- · License: BSD
- Source: git https://github.com/tu-darmstadt-ros-pkg/hector_slam.git (https://github.com/tu-darmstadt-ros-pkg/hector_slam) (branch: catkin)

1. Documentation

Documentation is available for each package as linked above. The main packages are:

- hector mapping (/hector mapping) The SLAM node.
- hector geotiff (/hector geotiff) Saving of map and robot trajectory to geotiff images files.
- hector_trajectory_server (/hector_trajectory_server) Saving of tf based trajectories.

http://wiki.ros.org/hector_slam 1/3



A playlist with example applications of the system is also available on YouTube (http://www.youtube.com/playlist?list=PL0E462904E5D35E29)

Details can also be found in this paper:

```
@INPROCEEDINGS{KohlbrecherMeyerStrykKlingaufFlexibleSlamSystem2011,
   author = {S. Kohlbrecher and J. Meyer and O. von Stryk and U. Klingauf},
   title = {A Flexible and Scalable SLAM System with Full 3D Motion Estimatio
   n},
   year = {2011},
   month = {November},
   booktitle = {Proc. IEEE International Symposium on Safety, Security and Resc
   ue Robotics (SSRR)},
   organization = {IEEE},
}
```

available here (http://www.sim.tu-darmstadt.de/publ/download/2011_SSRR_KohlbrecherMeyerStrykKlingauf_Flexible_SLAM_System.pdf)

2. Tutorials

- 1. How to set up hector_slam for your robot (/hector_slam/Tutorials/SettingUpForYourRobot)

 This tutorial shows you how to set frame names and options for using hector_slam with different robot systems.
- 2. How to build a Map Using Logged Data (/hector_slam/Tutorials/MappingUsingLoggedData)
 This tutorial shows you how to create a 2-D map from logged transform and laser scan data.

3. Report a Bug

Use GitHub to report bugs or submit feature requests (https://github.com/tu-darmstadt-ros-pkg/hector_slam/issues/new). [View active issues (https://github.com/tu-darmstadt-ros-pkg/hector_slam/issues?page=1&state=open)]

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Wiki: hector_slam (zuletzt geändert am 2014-04-17 08:17:01 durch StefanKohlbrecher (/StefanKohlbrecher))

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