

indigo

kinetic

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Documentation Status

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

Package Links

- [Tutorials \(/hector_slam/Tutorials\)](/hector_slam/Tutorials)
- [FAQ \(http://answers.ros.org/questions/scope:all/sort:activity-desc/tags:hector_slam/page:1/\)](http://answers.ros.org/questions/scope:all/sort:activity-desc/tags:hector_slam/page:1/)
- [Changelog \(http://docs.ros.org/kinetic/changelogs/hector_slam/changelog.html\)](http://docs.ros.org/kinetic/changelogs/hector_slam/changelog.html)
- [Change List \(/hector_slam/ChangeList\)](/hector_slam/ChangeList)
- [Reviews \(/hector_slam/Reviews\)](/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.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 \(/hector_mapping\)](/hector_mapping) The SLAM node.
- [hector_geotiff \(/hector_geotiff\)](/hector_geotiff) Saving of map and robot trajectory to geotiff images files.
- [hector_trajectory_server \(/hector_trajectory_server\)](/hector_trajectory_server) Saving of tf based trajectories.

Handheld Mapping System in the RoboCup 2011 ...



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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