

Abstract

This work has as main goal to develop an algorithm capable of tracking a curb in an urban scene, specifically at an intersection, captured by a stereo camera system on the top of a vehicle which information is stored on a public database.

It is intended to be innovative to some extent and to be focused on an specific application, using a distinct method from the commonly used.

The principal difficulty of the work is located on the unknown of certain tridimensional information such as normal and curvatures in the hidden part of the curb, as well as the not enough visual information clearly identifying the curb.

- Keywords
- Bird View.
- Elevation Map.
- Principal plane.
- Worm.