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(57) Abstract :

[06] Computer vision combines a wide range of technologies to provide useful answers, often at low computational cost, from the acquisition and analysis of images, it can be used for the location, classification and tracking of objects, by extracting features and their subsequent analysis. In this field, there is a varied collection of techniques that make it possible to use them with any type of image that shows the object or patterns of interest clearly enough. With this in mind, our research seeks the implementation of a driving assistance system capable of detecting and recognizing traffic signs, objects on the road, and lane detection, through the use of a medium-resolution RGB camera. So that the system is affordable in developing countries and additionally, it can be adapted to any type of vehicle. In addition, it seeks that its computational cost, both in training and in its implementation, is low consumption. Accompanied Drawing [FIG. 1] [FIG. 2] [FIG. 3] [FIG. 4] [FIG. 5] [FIG. 6] [FIG. 7] [FIG. 8]

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