



Project Title:	Automatic Road Sign Detection, Recognition & Annotation
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Project Description:

Road Sign Detection and classification from a video camera is an advance topic in the field of computer vision. Road signs are used to give advice, directions and warnings for drivers on the road. The visual information obtained through road signs helps drivers to operate their vehicles in a manner that enhances road safety. Failure to notice road signs may directly or indirectly contribute to road accidents. Road sign detection and classification system in an intelligent vehicle can reduce the occurrence of accidents and keeps informed to the driver. The system is also helpful for highway agencies to detect the status of road sign. That is faulty road signs can be replaced if they are broken or damaged.

Road signs are of basic geometric shapes and also of very basic colours which represent different meanings. Correct segmentation of Shape and Colour of the Road Sign from the image is important for its recognition.

The objectives of Road Sign Detection and Classification system are to detect and classify one or more Road signs from images taken from a video camera. The system consists of on-board warning system which alerts the driver by voice saying in prior as he/she approaches the road sign. The Development of this kind of system is a challenging vision task due to some important issues such as variable lighting condition, Scale variations or different sizes of road sign, and Occlusion of the road signs.