Pedestrian Protection System for ADAS using ARM 9

Abstract

We developed pedestrian protection system by using haar cascade algorithm with Friendly ARM (S3C2440) board as a hardware. This system is developed on opencv platform using ubuntu as an operating system. This system will work in two mode auto and manual. In auto mode as soon as pedestrian get detected break will be applied if pedestrian is in high risk area. And for manual mode there is alarm or buzzer will sound to alert driver. This system gives low false positive as well as low false negative rate. This system is low cost system as compare with state of art.

References

3. P. Viola, M. Jones, Robust real-time object detection, Int.J.Comput.Vis. 57(2)
15. Datasheets and the user manuals of S3C2440.

Index Terms

Computer Science  Pattern Recognition

Keywords

Feature extraction, friendly ARM, haar cascade algorithm, Pedestrian detection.