**HELMET DETECTION USING DEEP LEARNING AND COMPUTER VISION**

**ABSTRACT:**

In this paper, we’ve tried to propose a strategy for automatic detection of bike-riders without helmet using image processing in real time. The proposed strategy first detects bike riders with the help of image segmentation. Then it determines whether bike-rider is using a helmet or not using hexadecimal classifier.

In order to evaluate our strategy, we have provided a performance comparison of various feature representations.

The experimental results show detection accuracy of more than 50% on the real world surveillance data.





