

Brightness guided preprocessing for automatic
cold steel weapon detection in surveillance videos:
complementary material

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Description

This document explicitly shows the images that we must not include in the manuscript, entitled Brightness Guided Preprocessing for Automatic Cold Steel Weapon Detection in Surveillance Videos, because its content could possibly have violent connotations.

Figure 4: Example images of four object classes from Database-3, (a) knife class,
(b) pen class, (c) mobile phone class and (d) cigarette class.



Figure 5: Example images from Database-4. These images show a richer context.



Figure 6: The results of the detection in the four different brightness conditions.

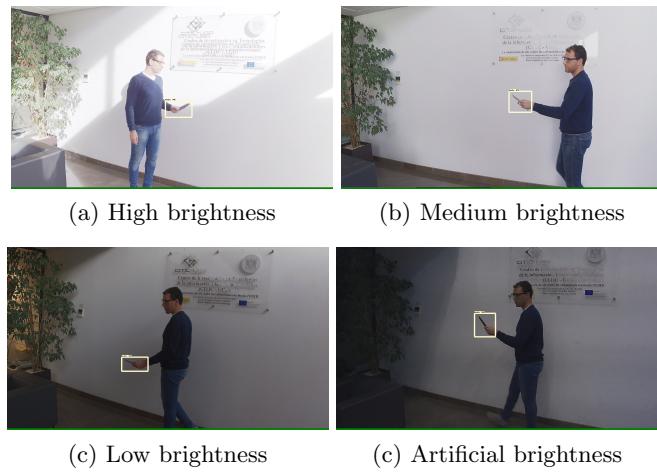


Figure 7: Examples of detection results of two similar situations in different brightness conditions.

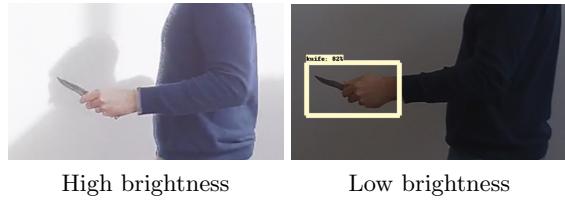


Figure 8: Alarm detection system diagram. Sample of sequence detection with alarm activation. The white box represents a true positive.

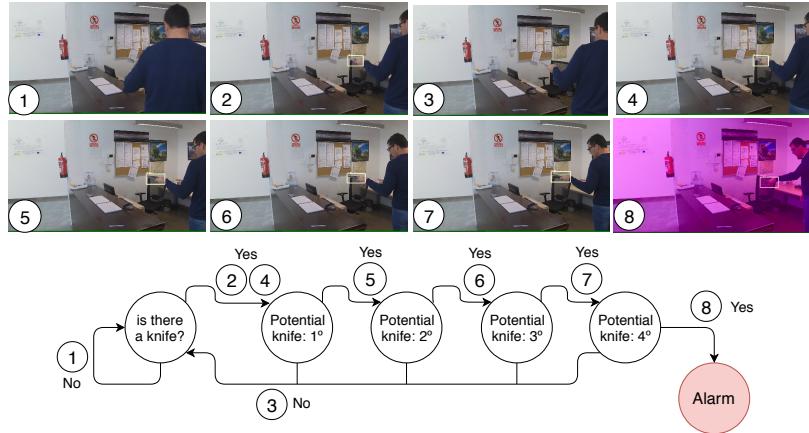


Figure 9: Examples of blurry and noisy areas (indicated by red boxes) due in part to sudden movements in two frames extracted from a surveillance video.

