Complementary material to the manuscript entitled *Automatic Handgun Detection Alarm in Videos Using Deep Learning*

Roberto Olmos[1], Siham Tabik[1], and Francisco Herrera[1,2]

[1]Soft Computing and Intelligent Information Systems research group, University of Granada, 18071 Granada, Spain.
[2]Faculty of Computing and Information Technology, King Abdulaziz University (KAU) Jeddah, Saudi Arabia. emails: siham@ugr.es, herrera@decsai.ugr.es

February 27, 2017

Description

This document explicitly shows the images that we must not include in the manuscript, entitled *Automatic Handgun Detection Alarm in Videos Using Deep Learning*, because its content could possibly have violent connotations.

References

Figure 1: Examples from Database-2, the top three images represent the pistol class and the down three images represent the background class

Figure 2: Three examples from Database-5. This dataset includes, in addition to the images, the xml file of each image with the localization information of the pistols.

Figure 3: An example of an accurate detection of four pistols.

Figure 4: Examples of false positives from Video 1.

Figure 5: An illustrative example of false negatives, i.e., the two pistols in background.