**Sensitive Motion Detection**

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**Introduction**

In our final projects We introduce the “Sensitive Motion Detection” algorithm. This algorithm goal is to detect moving object in a scene where the camera stands still (security camera for example), and alarm when an unapproved object is passing in the scene but ignore when an approved object is passing. The differentiation between approved and unapproved objects is based on preprocessing the data of the approved objects and store it in a database (deeper description in the ‘Algorithm Description’ section).

We wish to implement the algorithm based on classic computer-vision methods and not based on machine learning or deep learning methods which have more common usage for this kind of task these days.

**Related Work**

**Algorithm Description**

**Used Methods**

* **Change detection**
* **Histograms comparison**
* **Size matching (our own algorithm)**

**Data Used**

**Results Summary**

**Future Work**