Sommario

[prova 1](#_Toc106446136)

# 1. Introduction

The sum of absolute differences is a measure of similarity between image blocks, it consists in calculating the absolute differences between each pixel value of the two images and summing them to obtain a similarity metric. The higher the value the lower the similarity between the 2 blocks.

SAD is used for different purposes like object recognition, video compression, disparity maps and others.

For example, in the case of object detection, the environment light changing, and other factors can lead to misinterpretation of objects. In this context sad is used as a complementary method working with other type of object detection, like edge detection, to cope with this problems and to improve the reliability of the results.

A questo punto cita qualcosa dell’algoritmo e dì che tu hai usato un approccio behavioral che cerca di seguire quei principi.