

Computer vision

Project report

Recognition based localization

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April 9, 2021

Abstract

In this project, a program is created with the goal to localize a person based on captured video footage. To achieve this, first painting are detected in the footage frame by frame. These detected paintings are then matched with paintings in a database containing all the museum's paintings. Based on this matching, the person is localized on a map of the museum.

1 Assignment 1: painting detection

In this assignment

2 Assignment 2: painting matching

3 Assignment 3: localization

4 Assignment 4: demo