Computer Vision Report: in this project we will identify the buildings in Notre Dame Campus

* A list of the methods already applied for data pre-processing and feature extraction (2 points).

To identify the feathers of each building, we will find their color, shape. For the whole object, we will use the SIFT method to find the feathers of the buildings.

1. SIFT: help to find the feathers
2. Color: we will use the HSV method to detect the color feathers
3. Shape and perimeter detection

* A short justification why you decided to use these algorithms (5 points). For instance, if you used Canny edge detection and Hough transform to detect lines, say why you believe this feature extraction is good for your project.

Using the SIFT can help to find the key points of the objects. For each building in Notre Dame there are different feathers of it. As a result SIFT can take the whole shape of that building and find the key points for us. So we don’t have to put the side of the building with the specific feather to the program.

I will also use SURF

* A few illustrations demonstrating how your methods processed training data, for instance segmentation results (3 points)

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