

Visual Features

6 questions

1
point

1.

Features can be useful for

☐

Panorama stitching

☐

Image retrieval

☐

Scene reconstruction

☐

Image based localization

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2.

What properties of features are desirable?

☒

Detection Invariance.

☐

Detection variance.

☒

Descriptor invariance.

☐

Descriptor variance.

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3.

A scale space of an image can be build by

- ☐ convolving the image with itself multiple times.
 - ☒ convolving with gaussian filters and subsampling.
 - ☐ subsampling.
-

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4.

The scale of a feature is chosen by first convolving the corresponding image patch with Difference-of-Gaussian (DoG) filters and then, by taking the maximum response over all scales.

- ☐ False
 - ☒ True
-

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5.

The SIFT detector is

- ☒ Scale and rotation invariant
 - ☐ Rotation but not scale invariant
 - ☐ Scale but not rotation invariant.
-

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6.

To compute the SIFT descriptor

- ☐ You compute a histogram of colors around a point and rotate it so the brightest patch is up



You compute a histogram of gradients in a 16 by 16 grid and rotate them to have the largest magnitude gradient oriented upwards

4 questions unanswered

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