

Motion perception

Total points 2/3

The respondent's email (m22cs060@iitj.ac.in) was recorded on submission of this form.

✗ Which one of the following statements are true? *

0/1

- ☐ Intensity-based method works well when the moving object has the same colour of the background
- ☒ Intensity based method works for short range detection ✓
- ☒ It is sufficient to track a single token for token-based motion estimation ✗
- ☒ A motion may appear continuous even if the image of an object does not move continuously on the retina ✓

Correct answer

- ☒ Intensity based method works for short range detection
- ☒ A motion may appear continuous even if the image of an object does not move continuously on the retina



✓ What are the limitations in the following scheme of motion detection? * 1/1

- ☐ Motion can be detected in null direction only
- ☒ Noise may lead to wrong conclusions ✓
- ☒ Motion in a narrow range of magnitude only can be detected ✓
- ☐ Motion can be detected in preferred direction only

✓ "Aperture problem" refers to * 1/1

- ☐ Too small aperture of camera leading to less illumination and wrong motion estimate
- ☐ Requirement for different aperture to measure motion of different magnitude
- ☐ Too large aperture of camera leading to blurring and wrong motion estimate
- ☒ Inability to estimate motion in the direction perpendicular to the intensity gradient in intensity based methods ✓

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