

Computer vision tasks

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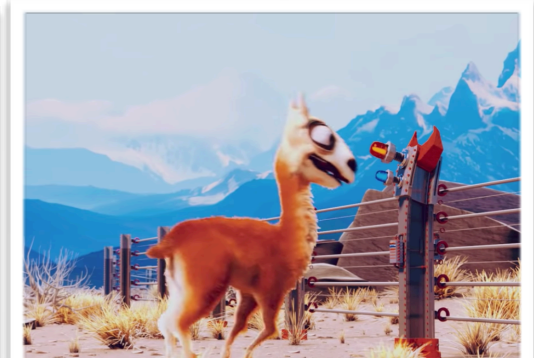
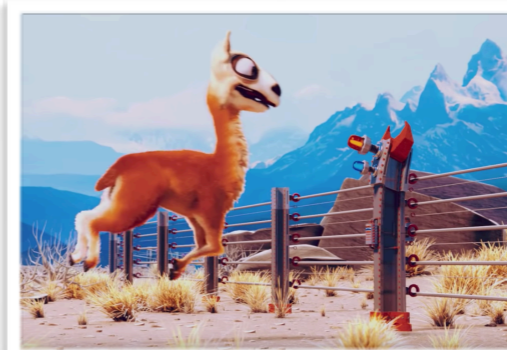
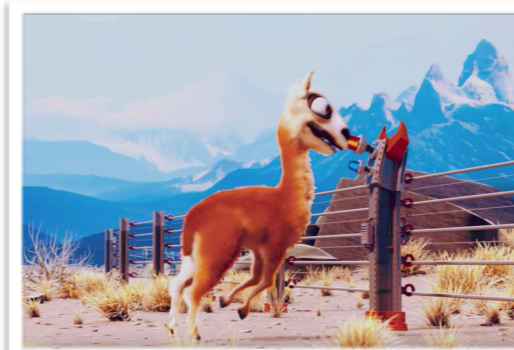
Computer vision

- Understanding visual data



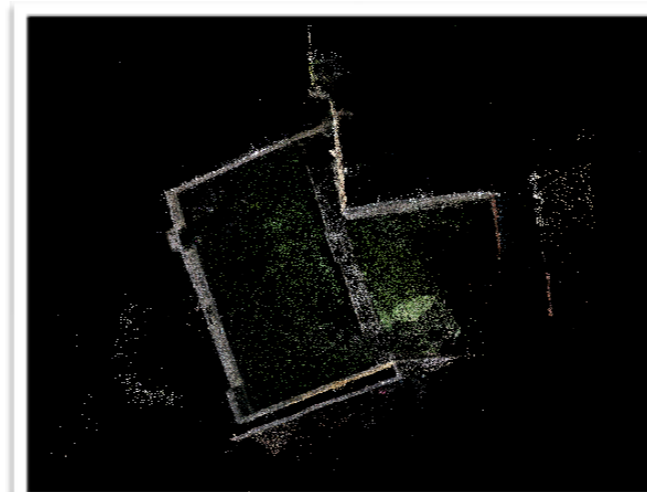
- Images

- Video



- Range images

- Inverse graphics



Computer vision tasks

- Global labeling
 - Label per image/video
- Sparse labeling
 - Spatial/temporal location used
- Dense labeling
 - Label per pixel



Global labeling tasks

- Image classification
- Action recognition
- Image retrieval
- Captioning / VQA
- ...



Sparse labeling tasks

- Object detection
- Sparse tracking
- Pose estimation
- Face recognition
- Optical character recognition
- ...



Dense labeling tasks

- Semantic segmentation
- Instance segmentation
- Depth estimation
- Intrinsic image decomposition
- Dense tracking
- ...

