

Pose Estimation Jetson Nano

INTRODUCTION

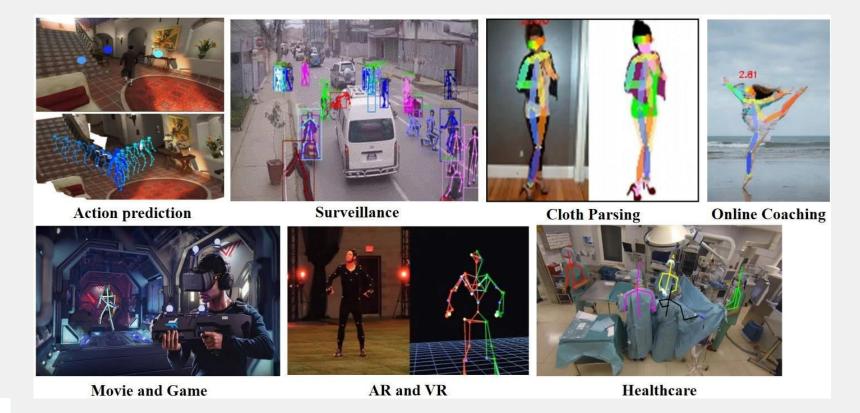


What is Pose Estimation?

"recovers the pose of an articulated body, which consists of joints and rigid parts using image-based observations."

Applications





Challenges?







Methods



- Holistic View
- Local View
- Combining Local and Global
- Others







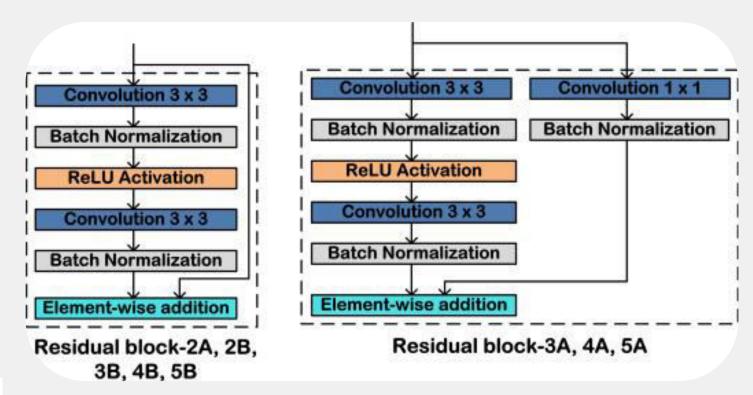




Model	CLI argument	NetworkType enum	Keypoints
Pose-ResNet18-Body	resnet18-body	RESNET18_BODY	18
Pose-ResNet18-Hand	resnet18-hand	RESNET18_HAND	21
Pose-DenseNet121-Body	densenet121-body	DENSENET121_BODY	18







Setting up Environment



- Jetson Nano
- Jetson Inference
- Good Internet



Real Time Inference

- webcam
- Jetson nano
- Nvidia Jetpack

Implemention



```
from jetson inference import
poseNet
from jetson utils import
videoSource, videoOutput, logUsage
 load the pose estimation model
net = poseNet(opt.network, sys.argv,
opt.threshold)
```

Result



