Robot Pose Estimation

Known-joint:

Input Image + Joint States → Model → Output Pose

Unknown-joint:

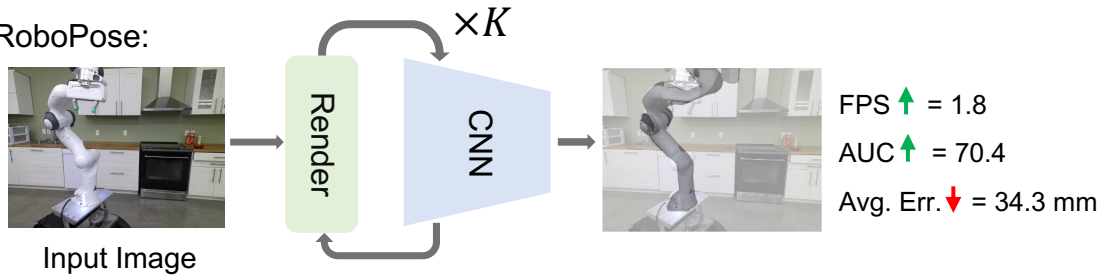Input Image → Model → Output Pose + Joint States
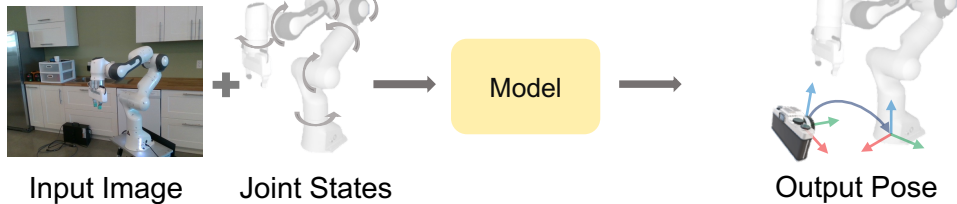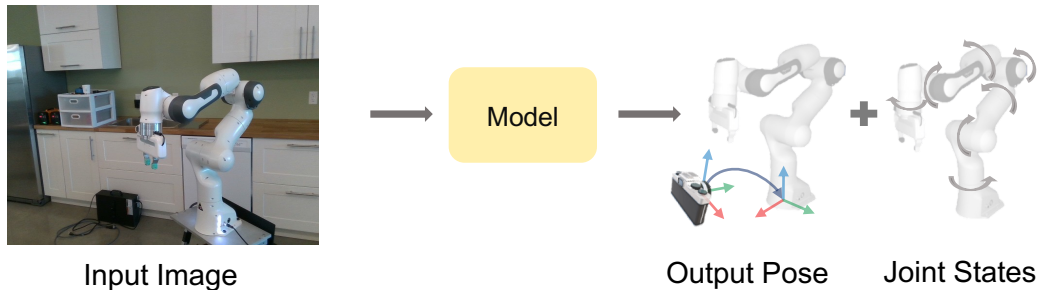
Holistic Robot Pose Estimation

RoboPose:

Input Image → Render → CNN ×K →

FPS ↑ = 1.8
AUC ↑ = 70.4
Avg. Err. ↓ = 34.3 mm

Ours:

Input Image → CNN →

FPS ↑ = **22.6**
AUC ↑ = **82.2**
Avg. Err. ↓ = **18.9 mm**

Ours → Faster, More Accurate