IO-AI TECH

WE RELEASE

IO-ULTRA-EMBODIMENT

A DATASET CONTAINS MASSIVE-SCALE MULTI-MODAL HUMAN ACTIVITIES

DATASET STATISTICS

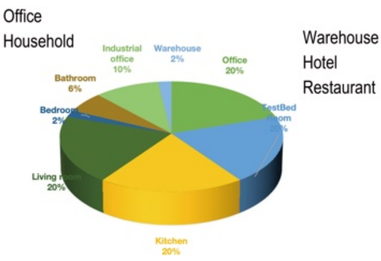
MASSIVE-SCALE

Scripted: 500k trajectories

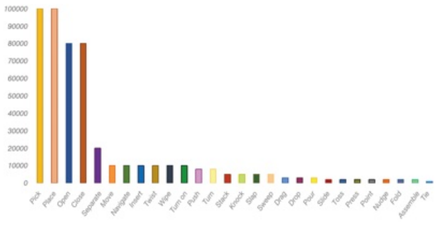
Real-Scenario: Hundreds of hours

MULTI-SCENE

NO TOY SCENES ANYMORE!



MULTI-TASK



MULTI-MODAL

Vision: 3 RGB + 1 Depth + 1 Fisheye

Action: whole body movement

Tactile: hands + feet

Audio: via a circular 4-mic array

Label: natural language task description

DATA COLLECTION DEVICES

Mocap Suit

- ☑ Self-developed
- ☑ Low-cost
- ☑ 17 IMUs

Gloves

- ☑ Tactile Collection OR Haptic feedback
- ☑ 10 contact points each hand

Helmet

- ☑ 5 channel images
- ☑ Circular mic array
- ☑ Size adjustable

Shoes

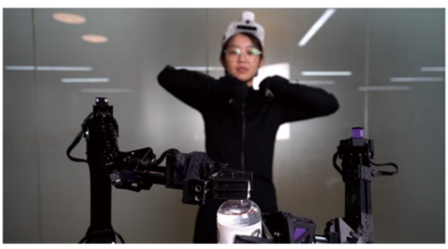
- ☑ Pressure sensor array
- ☑ 99 contact point each foot
- ☑ Waterproof

TELEOPERATION PLATFORM

Same devices for a general robot teleoperation platform

More Affordable: no additional master robots required

More Accurate: fused visual and motion results



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