



Overview

Head-mounted camera





We have to... detect objects •choose handled object



Goal:

Recognize Activities of Daily Living (ADL) from egocentric camera without densely annotated datasets

Existing works:

- Detect handled objects from a view of head-mounted camera or chest-mounted camera, and then recognize ADL
- The key of recognition: handled objects Idea:
- Mount camera on the user's *wrist* instead of head or chest in order to skip object detection

Contributions:

- Wrist-mounted camera for ADL recognition, instead of head or chest
- Novel video representation
- Publicly available dataset

Wrist mounted camera			
Characteristics		WMC	HMC
Handled object	size	Large	Small
	position	Center	Inconsistent
	distance	Very close	Far
Motion of camera itself		Large	Small
Motion of handled object		0	Inconsistent

