

## Shoulder Width Measurement

static detection

Constraint-Based Error Correction

$v_{terminal}$  correction

$\theta_{rotation}$  correction

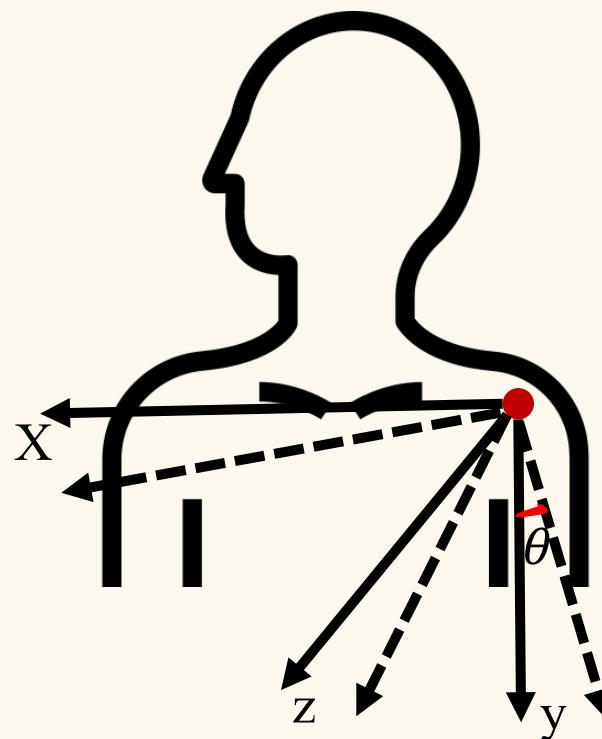
Radius Calculation and Filtering

Calculate the median

Output shoulder width

## shoulder Level Calibration

### Coordinate System Establishment



## Position Tracking

static detection

motion detection

ZUPT application

Trapezoidal integration

Butterworth filter

$v_{terminal}$  constraint

Coordinate output