

Surveillance cameras

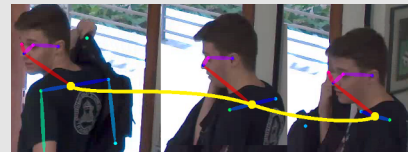
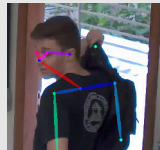
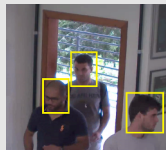


Surveillance Videos



## Preliminaries

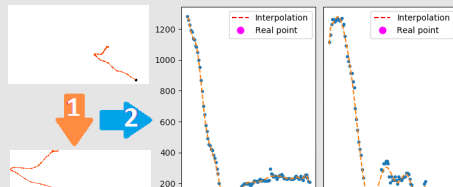
People Detection



Tracking

## Feature extraction

Trajectory preparation

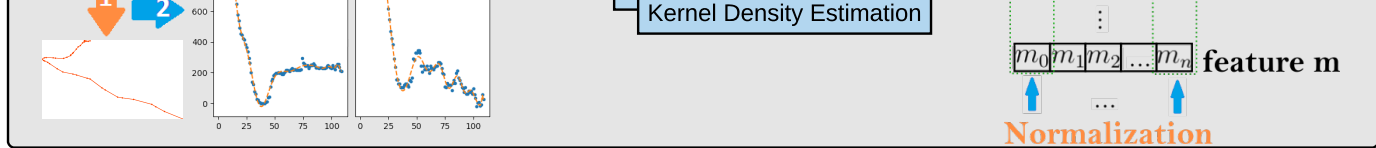


Trajectory description

Polynomial Interpolation  
Discrete Fourier Transform  
Wavelet Discretization  
Kernel Density Estimation

Feature normalization

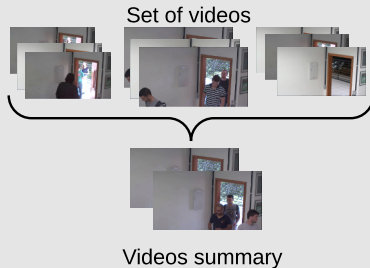
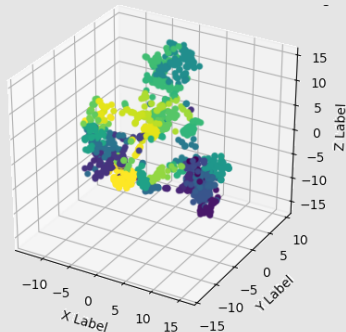
$a_0$	$a_1$	$a_2$	...	$a_n$	feature 1
$b_0$	$b_1$	$b_2$	...	$b_n$	feature 2
$c_0$	$c_1$	$c_2$	...	$c_n$	feature 3
$\vdots$					
$m_0$	$m_1$	$m_2$	...	$m_n$	feature m



## Trajectory analysis

Trajectory clustering

Gathering Videos



Summary Videos

