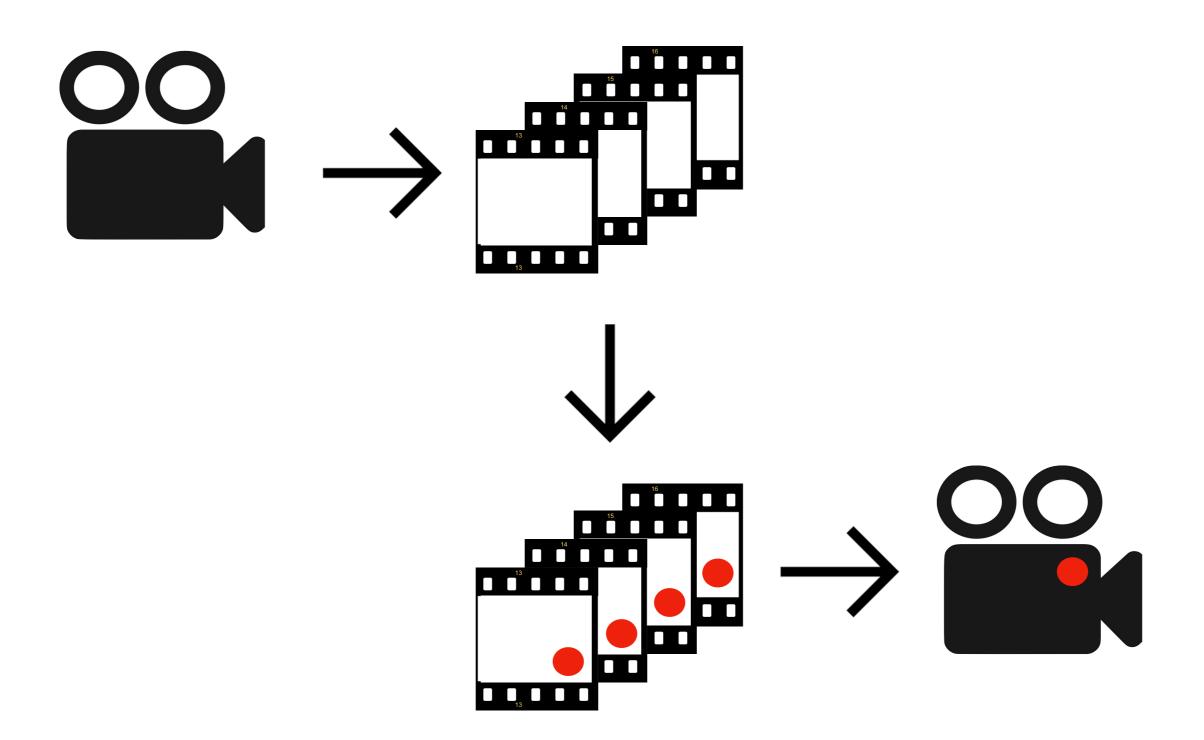
Title ??

Liudmila Karagyaur Lorenzo Ferri Vanessa Braglia

Idea



Clustering

with k-mean

Iteratively minimise the distance between each point and the centroids

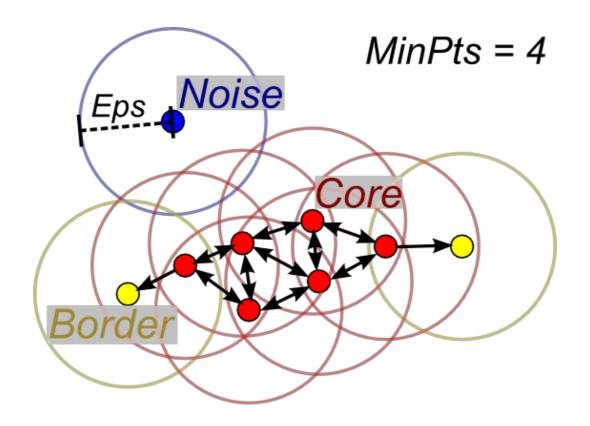
$$\arg\min_{j} D(x_i, c_j) \quad j = 1, \dots, k$$

and compute the new centroids doing the mean of the clusters

$$c_j = \frac{1}{n_j} \sum_{x_i \in C_j} x_i$$

Clustering

with **DBSCAN**



The **core** points together with the **border** points will form the clusters. The **noise** points will be discarded.

Clustering

with Spectral

This algorithm need the adjacency matrix of the image.

The second smallest eigenvector **x2** is then used to create the clusters.

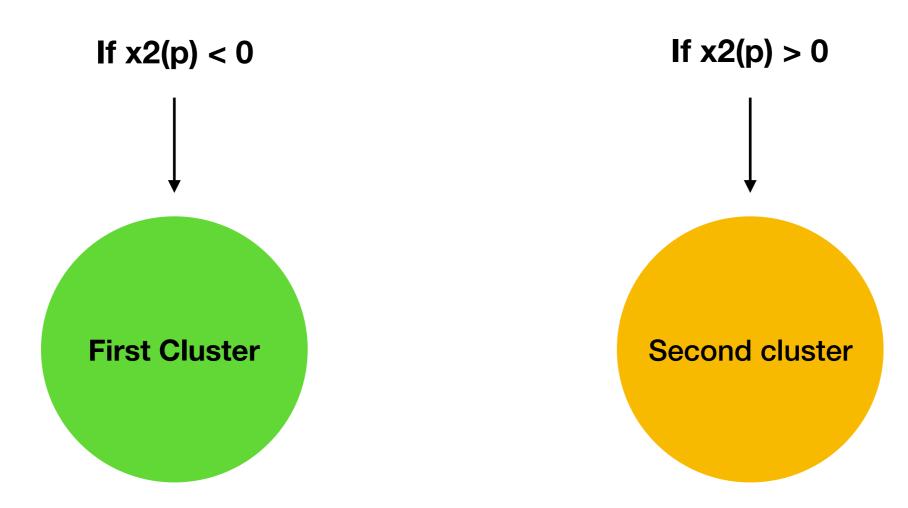
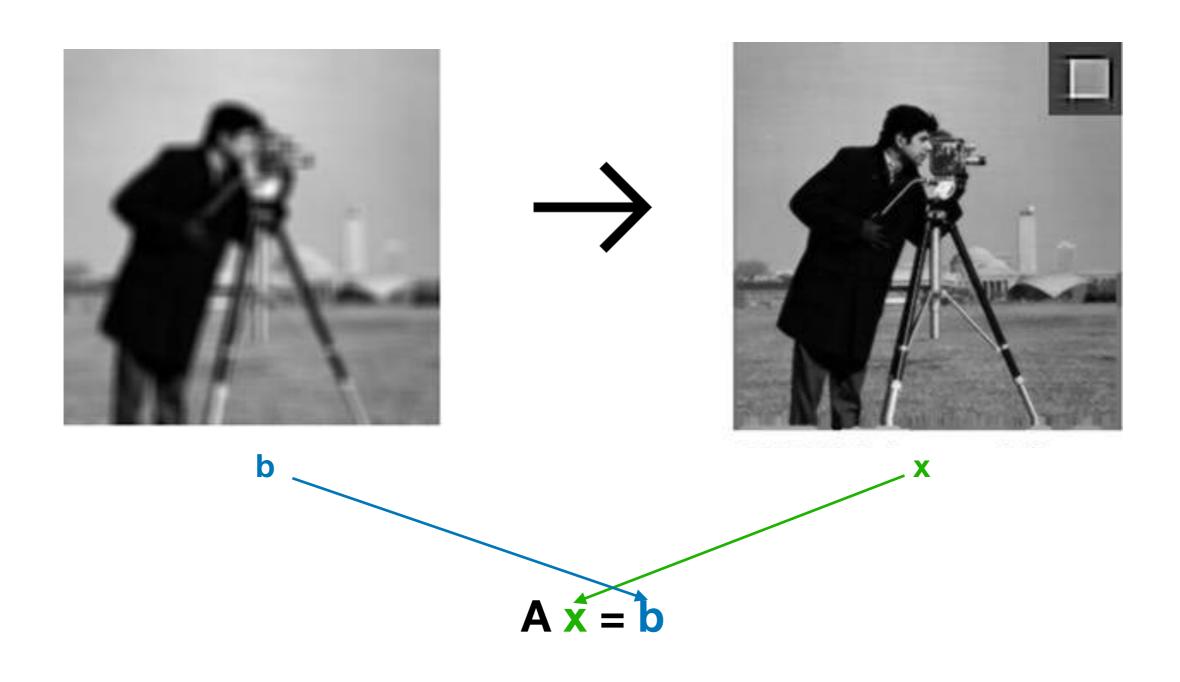
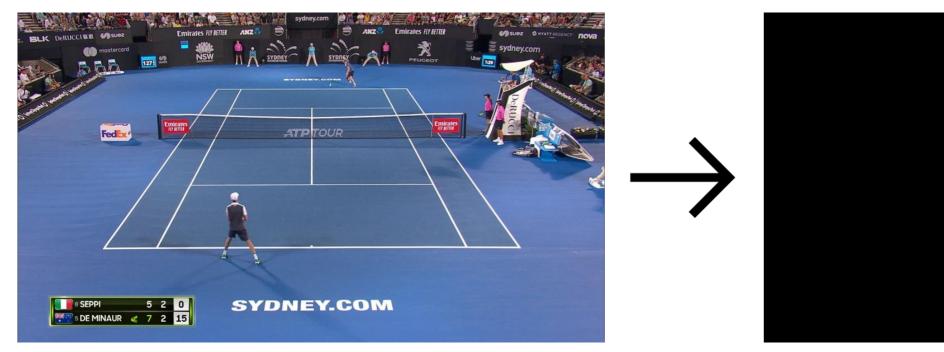
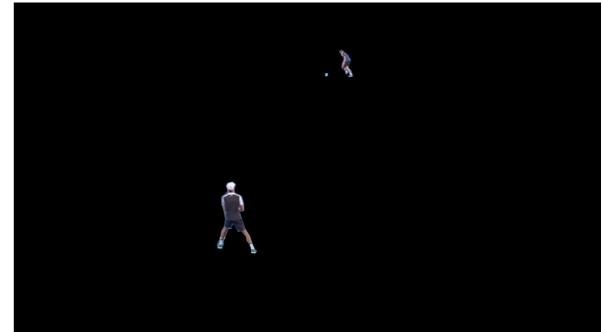


Image Deblurring

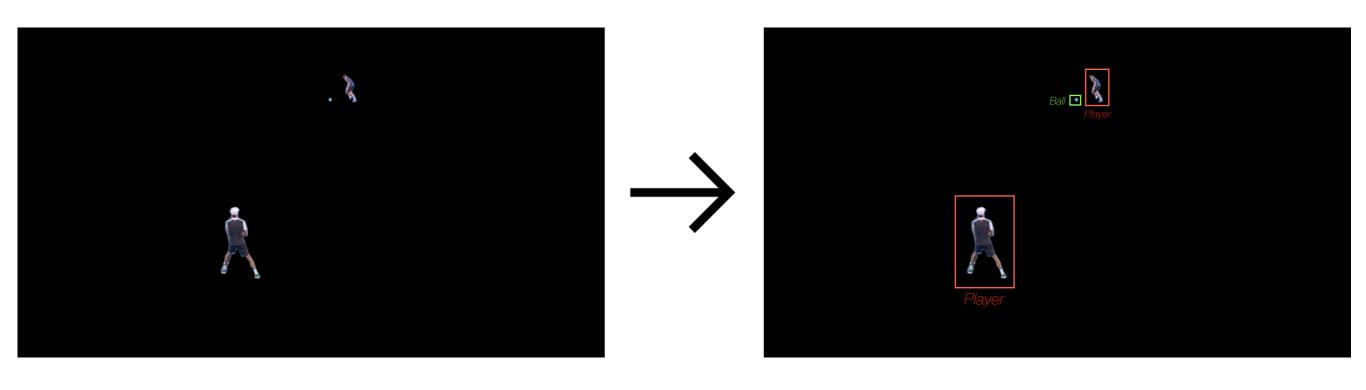


Feature Extraction





Machine Learning



Parallelising

