

Training image
pairs of pedestrians

Hierarchical Gaussian descriptors
extraction

Descriptors kernelization

Dimension reduction by KLFDA
(a transformation T will be created)

Metric learning by steepest gradient
descent method

Gallery and
probe images

Hierarchical Gaussian descriptors
extraction

Descriptors kernelization

Dimension reduction by a
transformation matrix T

An SPD matrix

Distance matrix and CMC

