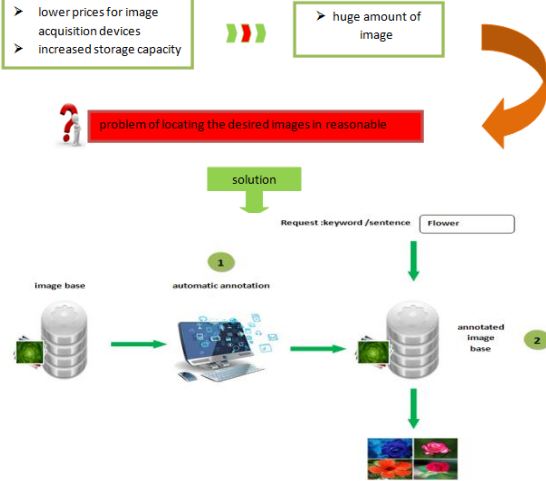


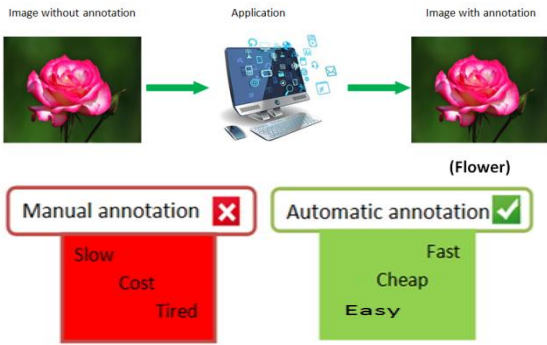
1. Introduction

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Need for image retrieval



Need for automatic image annotation



Problematique

How to automatically annotate the images?



2. methodology

2. methodology

features extractin

	feature1	feature2	feature4
img1	23	45	10
img2	65	43	22
img3	16	25	53
img4	44	30	62

principal component analysis

clustering

> KNN ,SVM,NB ,other strategie.....

Classificatin model

$$P_{\text{ann}}(X|C_1) = W_{11} * P(X|C_{11}) + W_{12} * P(X|C_{12}) + W_{13} * P(X|C_{13})$$

$$P_{\text{ann}}(X|C_2) = W_{21} * P(X|C_{21}) + W_{22} * P(X|C_{22})$$

$$P_{\text{ann}}(X|C_3) = W_{31} * P(X|C_{31}) + W_{32} * P(X|C_{32})$$

$$P_{\text{ann}}(X|C_4) = W_{41} * P(X|C_{41}) + W_{42} * P(X|C_{42}) + W_{43} * P(X|C_{43})$$

$$P_{\text{ann}}(X|C_5) = W_{51} * P(X|C_{51}) + W_{52} * P(X|C_{52})$$

For to annotate image : we select the first three concepts having obtained the highest scores

3. Experimentation

3. Experimentation

features extraction

means	mr	mg	mb
	66.7687	33.2885	25.2975
63.1855	32.1387	24.7723	

standard deviation	sdr	sdg	sdb
	66.7687	33.2885	25.2975
63.1855	32.1387	24.7723	

K means



4. Representative simples from our dataset

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