Cojocaru Calin – Tema 5, vedere artificiala

Experiment 1

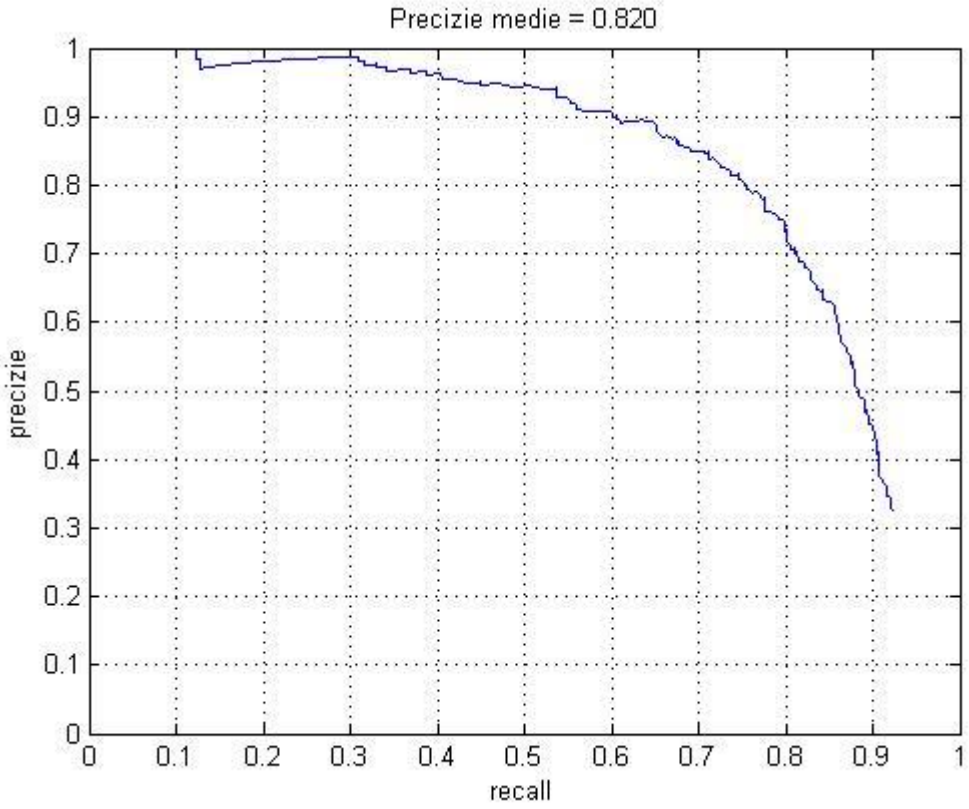
Parametri.dimensiuneCelulaHOG = 4

parametri.numarExemplePozitive = 6713*2; (am facut mirror la fiecare imagine)

parametri.numarExempleNegative = 40000;

parametri.threshold = 0.45;

optional : Am folosit in antrenare exemplele Puternic Negative



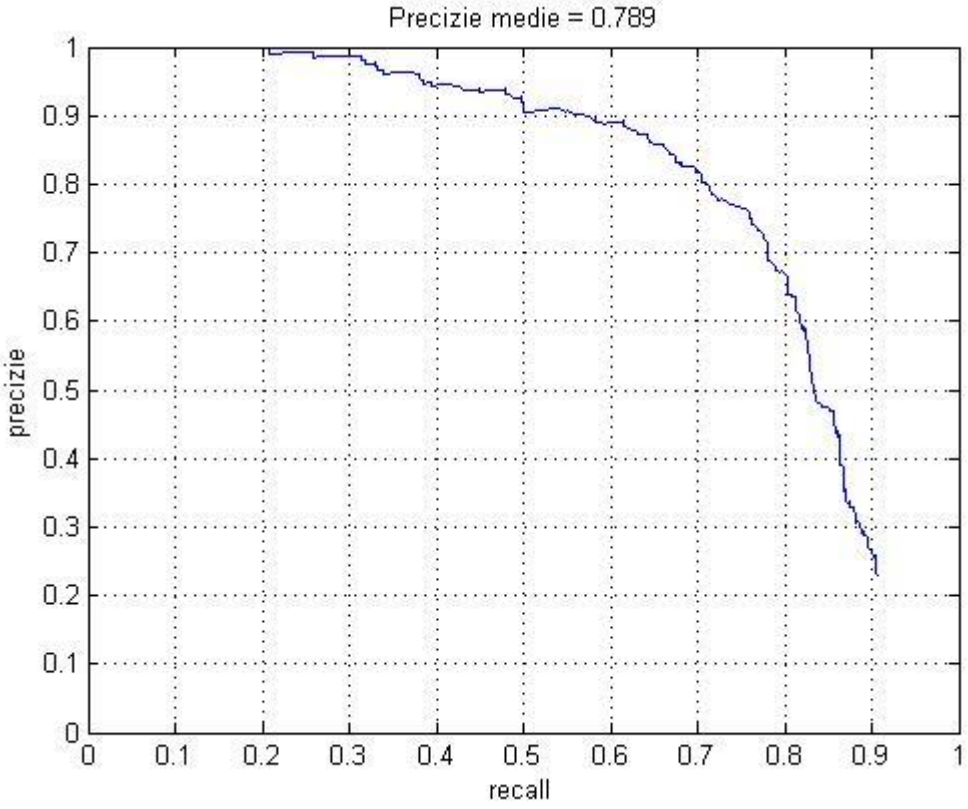
Experiment 2

Parametri.dimensiuneCelulaHOG = 6

parametri.numarExemplePozitive = 6713*2; (am facut mirror la fiecare imagine)

parametri.numarExempleNegative = 20000;

parametri.threshold = 0.3;


Precizie medie = 0.789
precizie
recall
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

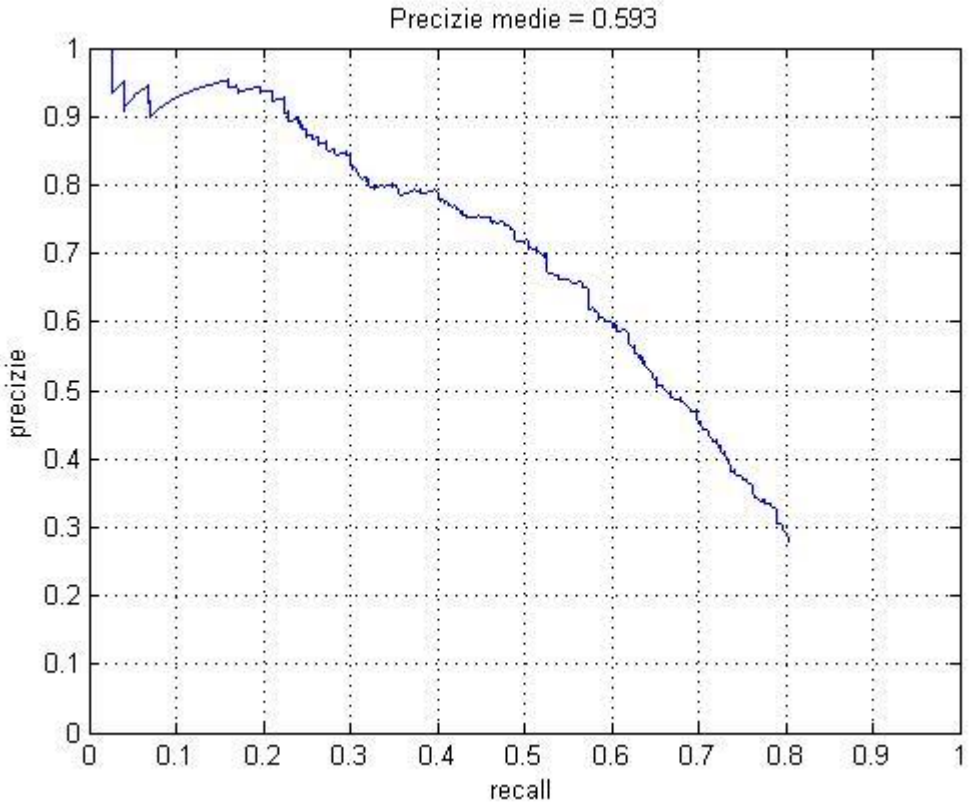
Experiment 3 :

Parametri.dimensiuneCelulaHOG = 9

parametri.numarExemplePozitive = 6713*2; (am facut mirror la fiecare imagine)

parametri.numarExempleNegative = 30000;

parametri.threshold = 0.5;



Cel mai bun rezultat :

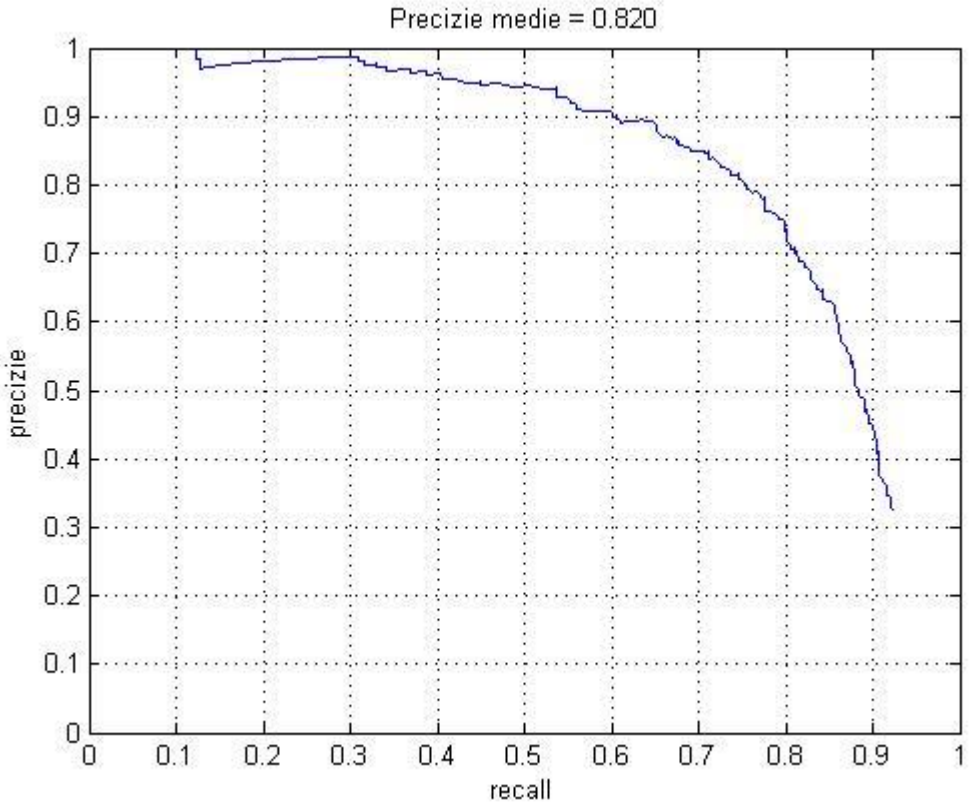
Parametri.dimensiuneCelulaHOG = 4

parametri.numarExemplePozitive = 6713*2; (am facut mirror la fiecare imagine)

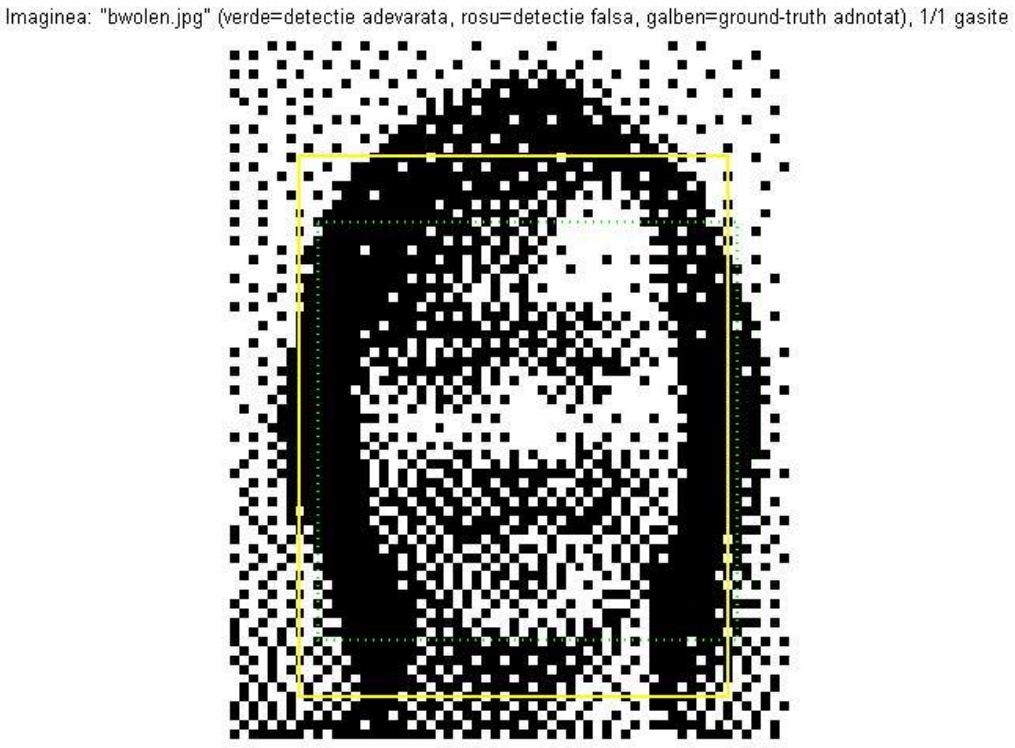
parametri.numarExempleNegative = 40000;

parametri.threshold = 0.45;

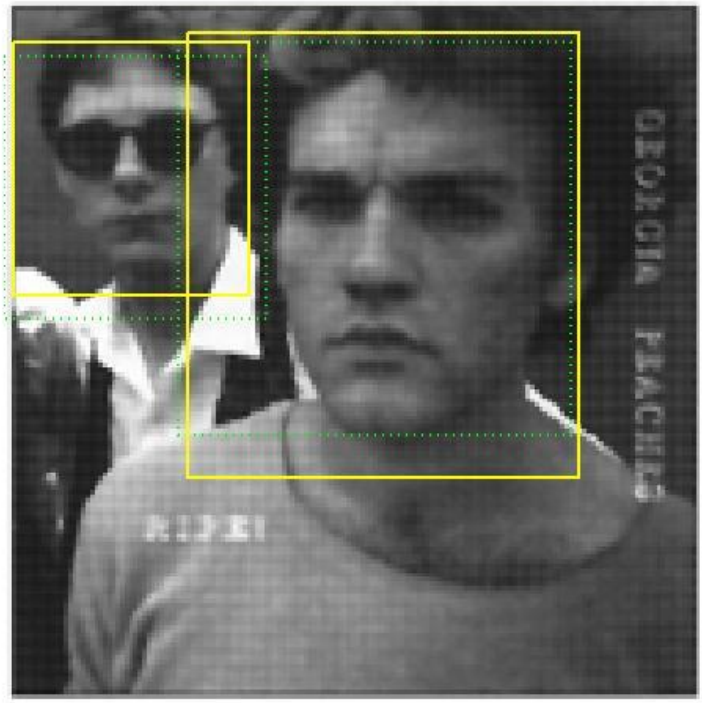
optional : Am folosit in antrenare exemplele Puternic Negative



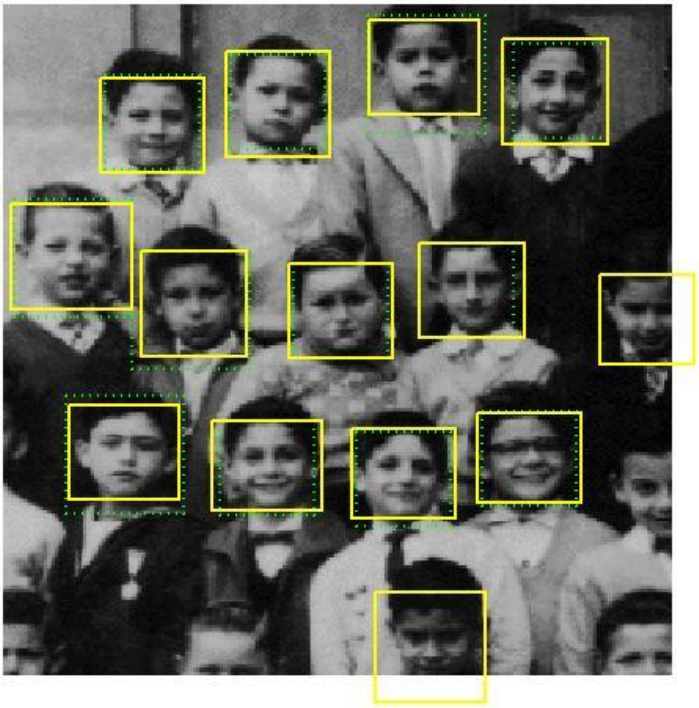
Vizualizari detector facial :



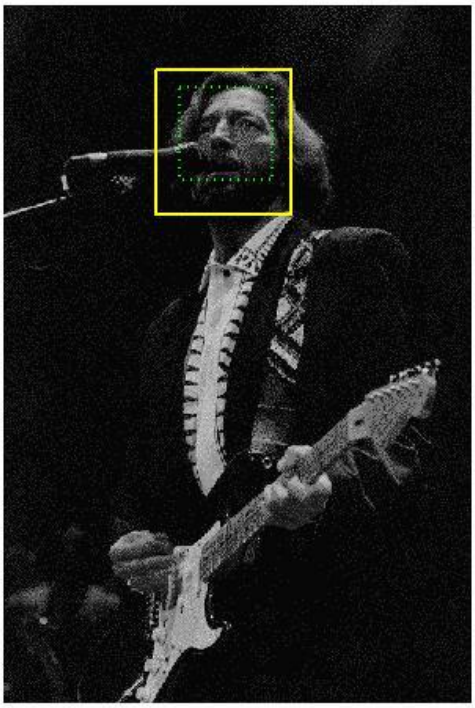
Imaginea: "gpripe.jpg" (verde=detectie adevarata, rosu=detectie falsa, galben=ground-truth adnotat), 2/2 gasite



Imaginea: "nens.jpg" (verde=detectie adevarata, rosu=detectie falsa, galben=ground-truth adnotat), 12/14 gasite



Imaginea: "clapton.jpg" (verde=detectie adevarata, rosu=detectie falsa, galben=ground-truth adnotat), 1/1 gasite



Imaginea: "IMG_3234.JPG" verde=detectie

Imaginea: "IMG_3231.JPG" verde=detectie

Imaginea: "IMG_3236.JPG" verde=detectie

Imaginea: "brian.jpg" (verde=detectie adevarata, rosu=detectie falsa, galben=ground-truth adnotat), 1/1 gasite