Animals

| Animals	Accuratezza massima (%) e modello		
	15 features	10 features	5 features
Valenza 2 cat.	67,1 (SVM)	64,5 (SVM, Ensemble)	69,1 (SVM)
non normalized	*65,1 (SVM)*		
Valenza 3 cat.	59,9(KNN)	58,6(SVM)	55,9(SVM)
Arousal 2 cat.	67,8 (Ensemble)	67,8 (SVM, Log. Regr., …)	63,8 (Ensemble)
Arousal 3 cat.	54,6 (SVM)	55,9 (SVM)	57,9 (SVM)

Valence: 2 categorie
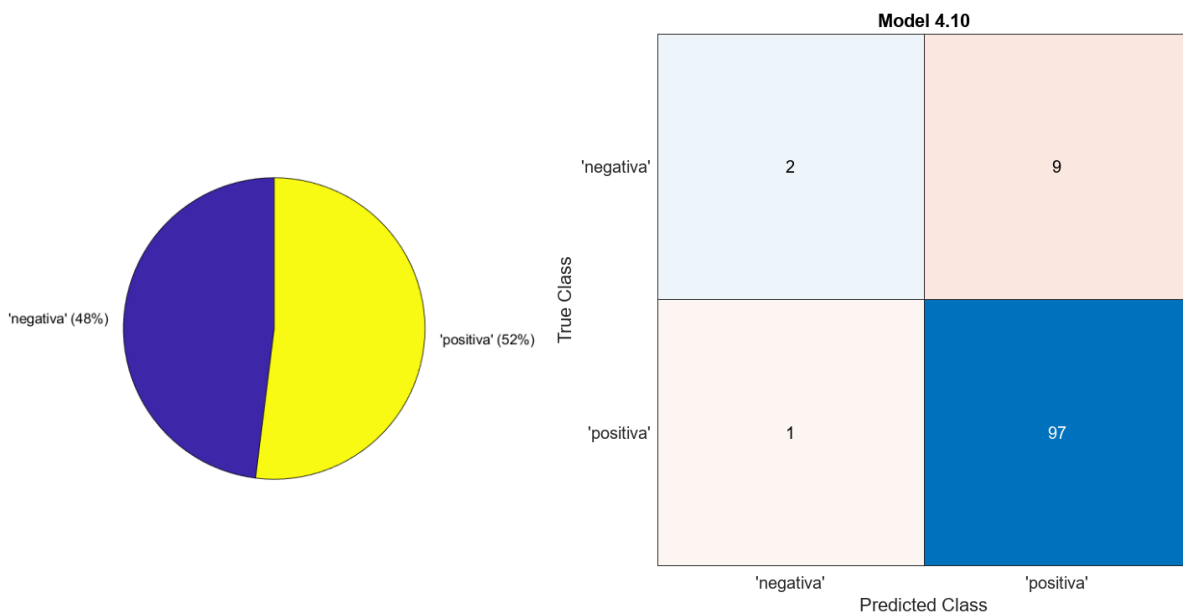
Feature ranking (ANOVA)

1. SizeInBytes   4.9376
2. SubbandEntropy   3.9416
3. Colorfulness   3.4620
4. FeatureCongestion 1.3561
5. SFresidual   0.9710
6. SF768_384   0.9080
7. AverageLuminosity 0.7618
8. SF12_6   0.7379
9. SF24_12   0.6816
10. Contrast   0.5959
11. SF6_3   0.3788
12. SF96_48   0.3619
13. SF192_96   0.2836
14. SF384_192   0.1868
15. SF48_24   0.1036

Valence: 3 categorie
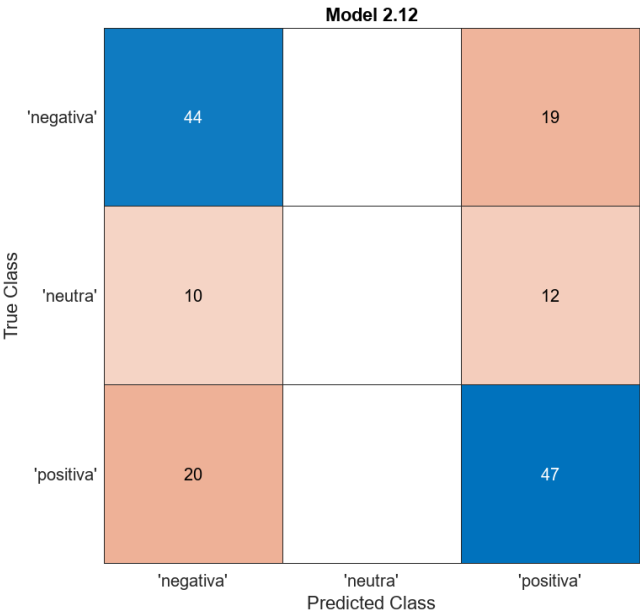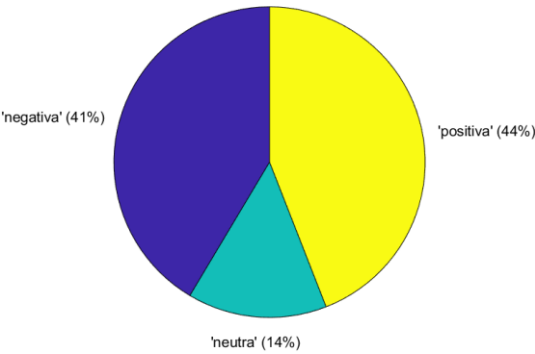
Arousal: 2 categorie
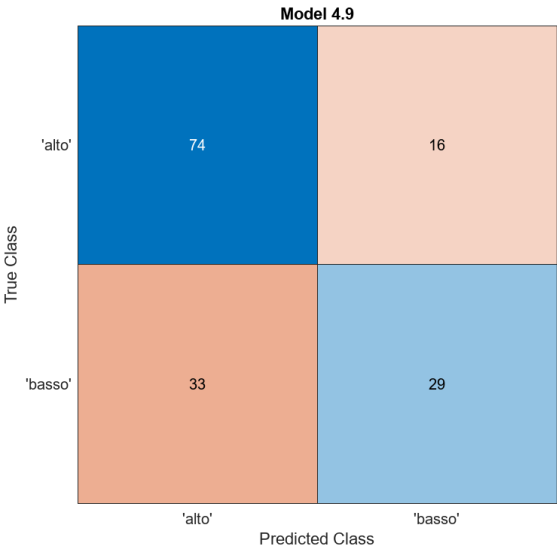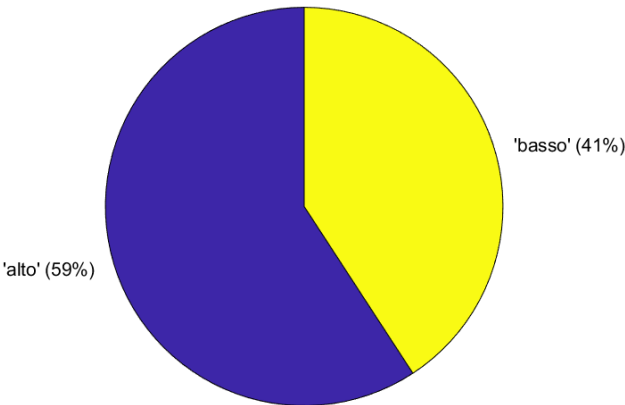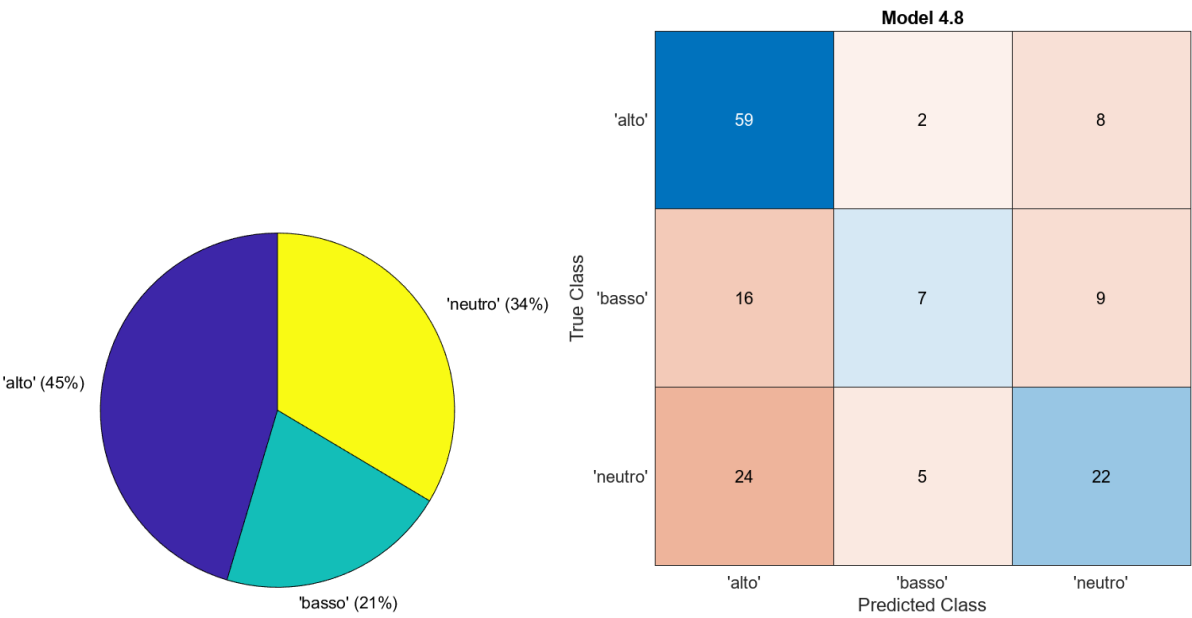

Feature ranking (ANOVA)

1. SF96_48   4.6810
2. SF192_96   4.5455
3. Colorfulness   3.0927
4. SF48_24   2.7502
5. SubbandEntropy   2.5726
6. SizeInBytes   2.3939
7. SF384_192   2.0170
8. SFresidual   1.8526

9. AverageLuminosity   1.2886
10. SF768_384   0.7918
11. FeatureCongestion   0.6669
12. SF24_12   0.3542
13. SF6_3   0.2659
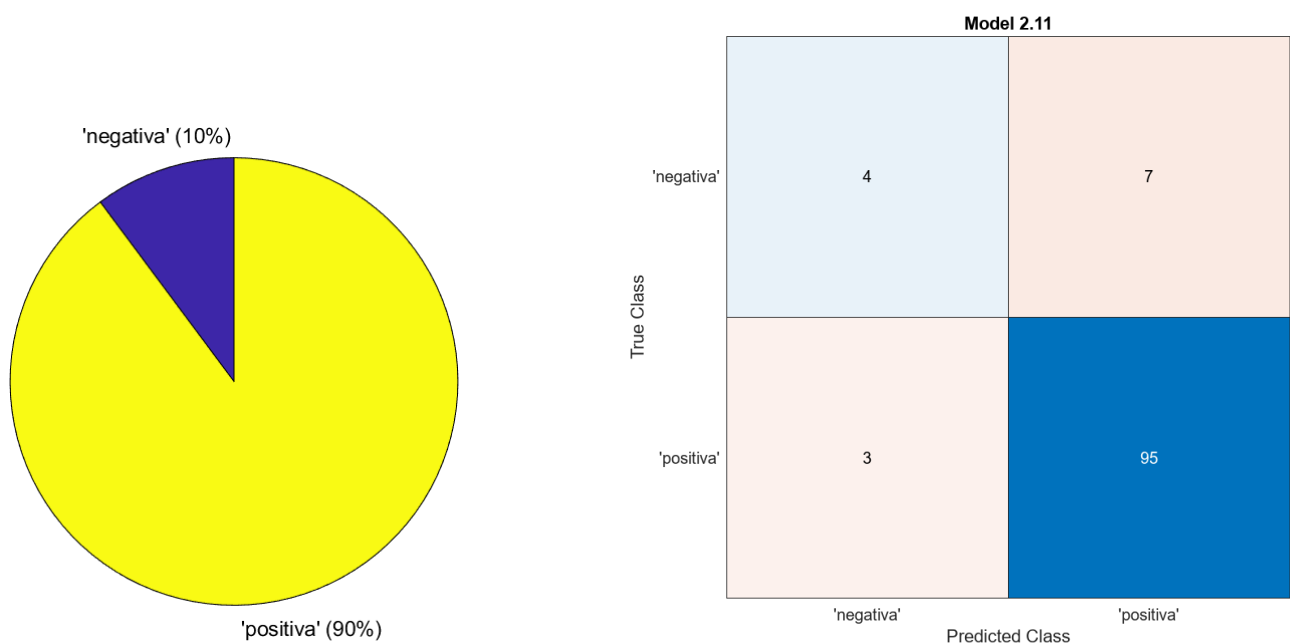14. Contrast   0.2283
15. SF12_6   0.2135

Arousal: 3 categorie

Food

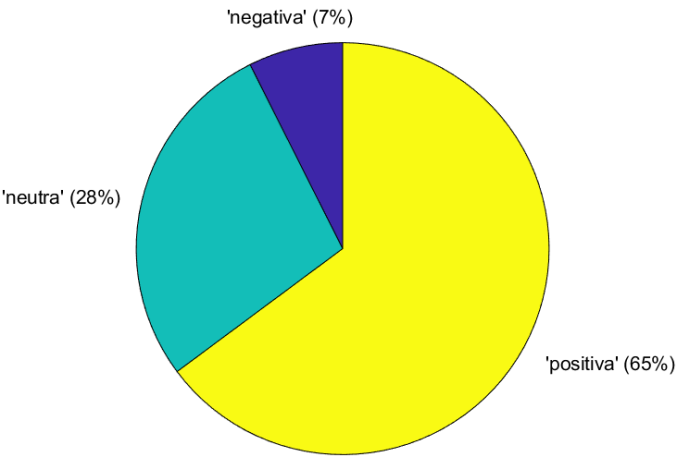| food	Accuratezza massima (%) e modello		
	15 features	10 features	5 features
Valenza 2 cat.	90,8 (SVM)	90,8 (KNN)	89,9 (KNN, SVM,…)
non normalized	*89,9 (SVM)*		
Valenza 3 cat.	75,2 (SVM)	70,6 (SVM, Kernel)	67,9 (KNN)
Arousal 2 cat.	77,1 (SVM)	77,1 (SVM, KNN, …)	78,9 (KNN)
Arousal 3 cat.	79,8 (SVM)	80,7 (KNN)	80,7 (Kernel)

Valence: 2 categorie

Feature ranking (ANOVA)

1. FeatureCongestion   2.6566
2. SF768_384   2.2617
3. SF12_6   2.1245
4. AverageLuminosity   2.0842
5. SF384_192   2.0396
6. SFresidual   1.8731
7. SF192_96   1.6416
8. SF48_24   1.6038
9. SF96_48   1.5031
10. SubbandEntropy   0.8210
11. Colorfulness   0.7212
12. Contrast   0.4415
13. SF24_12   0.4177
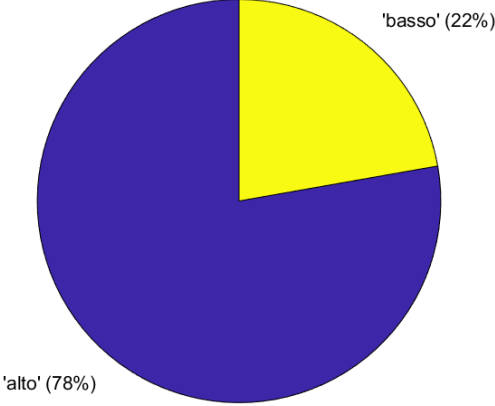14. SizeInBytes   0.4083
15. SF6_3   0.3611

Valence: 3 categorie

Model 2.9

Arousal: 2 categorie

Model 4.18

Arousal: 3 categorie

'alto' (20%)

'neutro' (80%)

Model 4.31

	'alto'	'neutro'
'alto'	1	21
'neutro'		87

True Class

Predicted Class

Objects

| Objects	Accuratezza massima (%) e modello		
	15 features	10 features	5 features
Valenza 2 cat.	61,5 (SVM)	59,4 (SVM)	62,7 (NN)
not normalized	*60,2 (SVM)*		
Valenza 3 cat.	54,1 (Ensemble)	50,8 (SVM, Kernel)	52,0 (KNN)
Arousal 2 cat.	67,2 (SVM)	63,9 (Ensemble)	65,6 (SVM)
Arousal 3 cat.	63,5 (SVM)	62,7 (SVM,KNN)	63,5 (SVM)

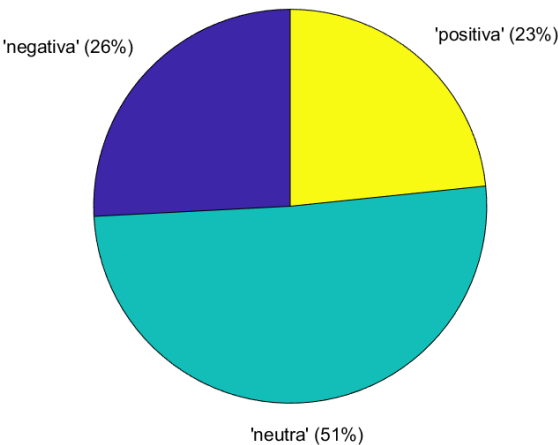**Valence: 2 categorie**
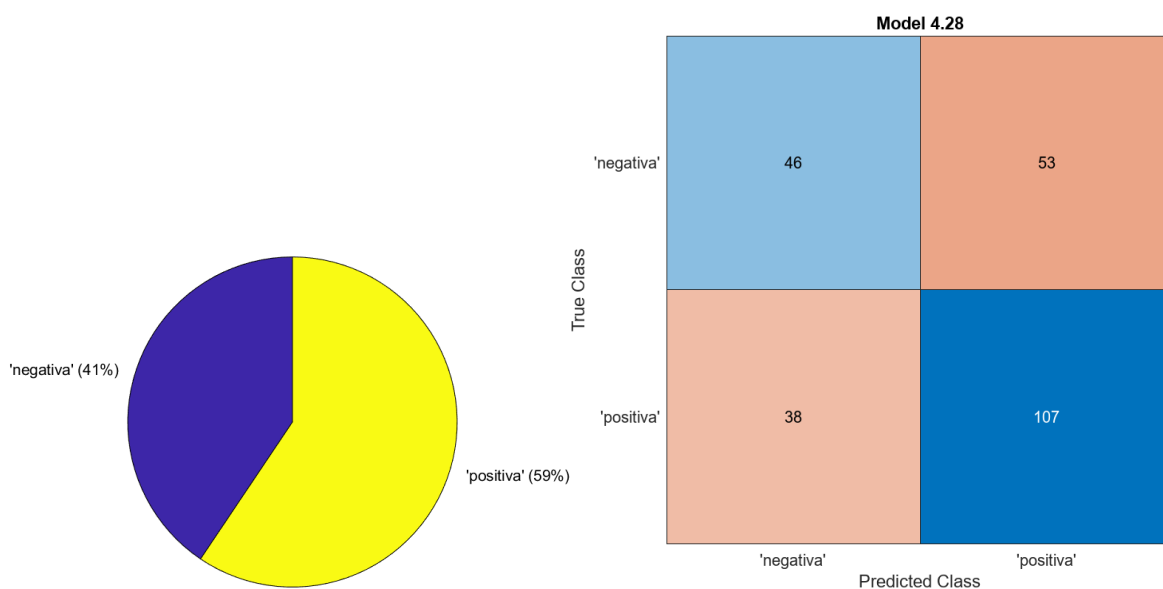
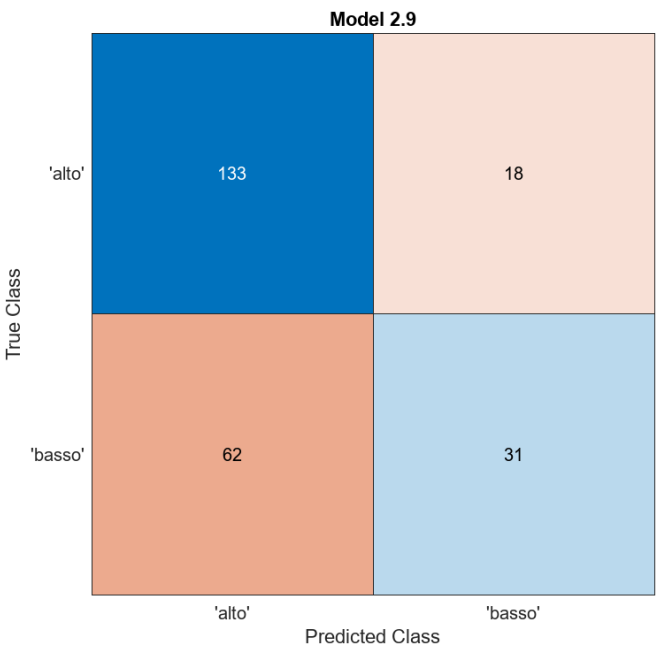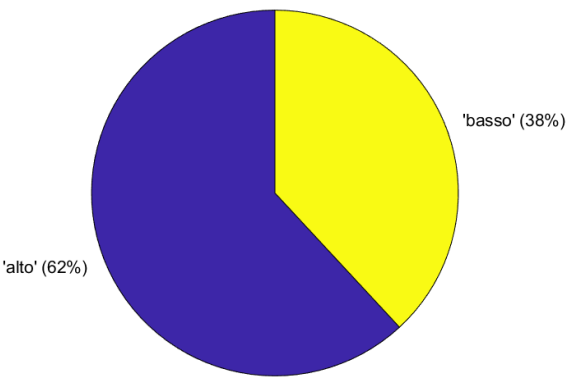**Feature ranking (ANOVA)**

1. Contrast   4.3980
2. Colorfulness   2.0688
3. SF6_3   1.8380
4. SF48_24   1.80341
5. SF12_6   1.7713
6. AverageLuminosity   1.2171
7. SFresidual   1.0421
8. SF96_48   0.8338
9. SF192_96   0.5901
10. SizeInBytes   0.4016
11. SF24_12   0.3224
12. FeatureCongestion   0.2081
13. SF768_384   0.1996
14. SubbandEntropy   0.1137
15. SF384_192   0.0936

Valence: 3 categorie
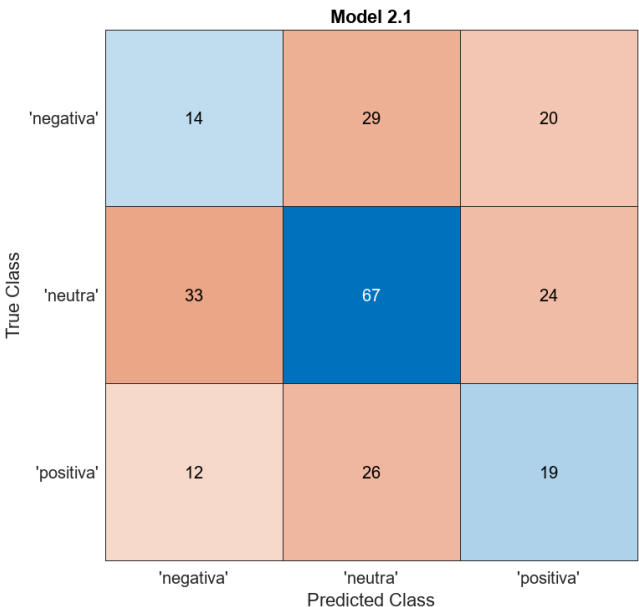
Arousal: 2 categorie
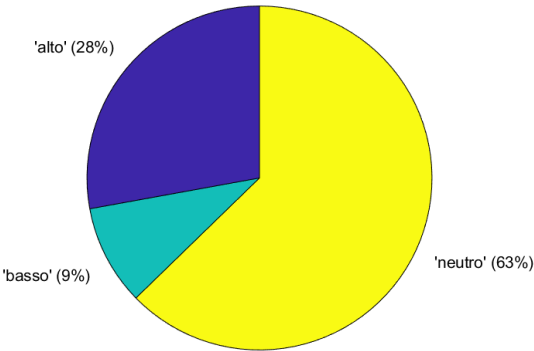

Feature ranking (ANOVA)

1. SF48_24   5.3860
2. SF96_48   5.2468
3. AverageLuminosity 3.9921
4. SFresidual   3.9273
5. SF24_12   3.8560
6. SF192_96   3.6796
7. SubbandEntropy   1.7728
8. FeatureCongestion 0.8522
9. Colorfulness   0.6761

10. SF6_3   0.6640
11. SF384_192   0.4095
12. SF768_384   0.3778
13. Contrast   0.0395
14. SF12_6   0.0328
15. SizeInBytes   0.0248

Arousal: 3 categorie

Landscapes

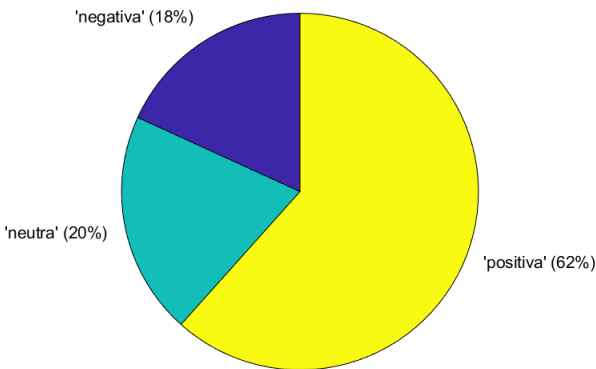| Landscapes	Accuratezza massima (%) e modello		
	15 features	10 features	5 features
Valenza 2 cat.	78,3 (SVM, Kernel)	79,8(SVM)	78,8 (SVM)
non normalized	*79,8 (Quadr. Discr.)*		
Valenza 3 cat.	68,2 (SVM)	69,2 (SVM, Kernel)	67,2(KNN)
Arousal 2 cat.	72,2 (Ensemble)	70,7 (SVM, Lin.Discr.)	67,7 (Naive Bayes)
Arousal 3 cat.	55,1 (SVM)	56,1 (Bagged Trees)	49,5 (Ensemble)

Valence: 2 categorie
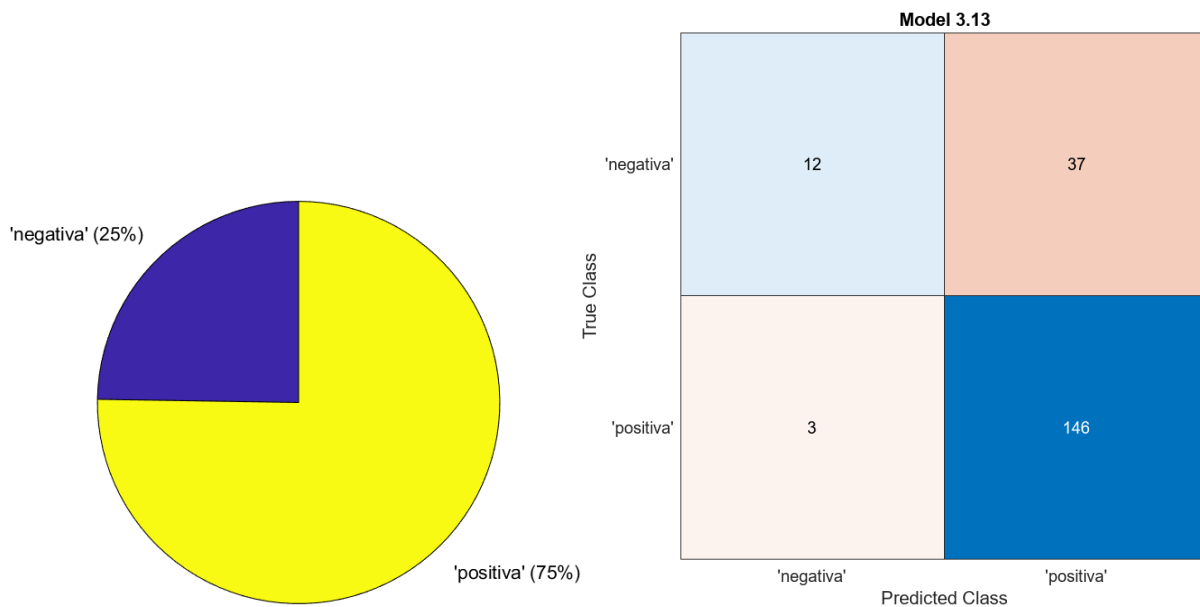
Feature ranking (ANOVA)

1. Colorfulness   11.5233
2. SF12_6   9.5115
3. SF24_12   8.3360
4. SF48_24   5.2035
5. SF96_48   3.3683
6. SFresidual   2.5914
7. SF192_96   2.3212
8. SF6_3   2.2076
9. AverageLuminosity 1.9977
10. Contrast   1.5922
11. SF384_192   1.0235
12. FeatureCongestion 0.9091
13. SubbandEntropy   0.8940
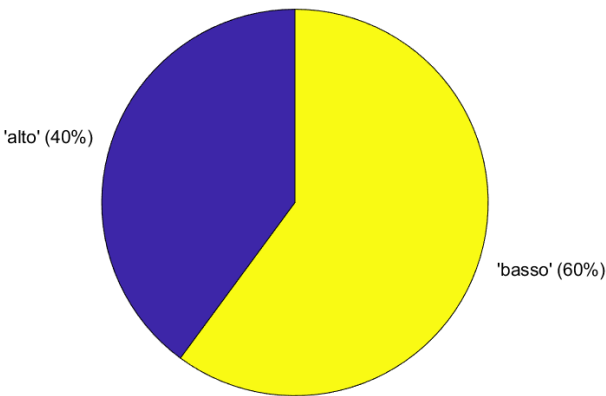14. SizeInBytes   0.6292
15. SF768_384   0.5840

Valence: 3 categorie

Arousal: 2 categorie

Feature ranking (ANOVA)

1. SF48_24   19.0210
2. SF96_48   18.7615
3. SF192_96   15.3563
4. SF24_12   13.6339
5. FeatureCongestion   7.9202
6. SF384_192   6.9106
7. SF12_6   6.7085
8. SFresidual   5.8178
9. AverageLuminosity   4.7090
10. Contrast   3.6688
11. SF6_3   1.7327

12.	SF768_384	1.6630
13.	Colorfulness	1.4745
14.	SubbandEntropy	0.8728
15.	SizeInBytes	0.1508

Arousal: 3 categorie
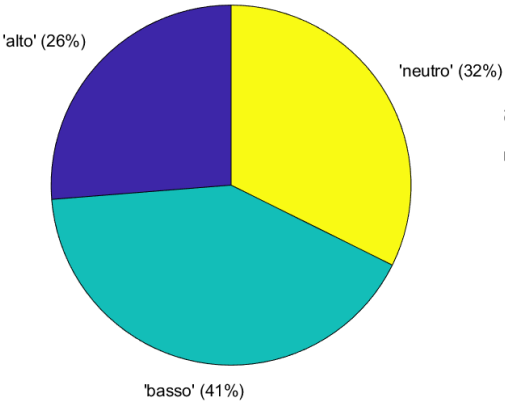
People

| People	Accuratezza massima (%) e modello		
	15 features	10 features	5 features
Valenza 2 cat.	70,0(Kernel)	70,7(Ensemble)	70,0 (Ensemble)
non normalized	*72,9 (Ensemble)*		
Valenza 3 cat.	63,4 (KNN)	60,6 (SVM)	59,0 (SVM)
Arousal 2 cat.	77,6 (Ensemble)	75,4 (Ensemble)	76,7 (Ensemble)
Arousal 3 cat.	61,2(KNN)	57,4 (SVM)	59,3 (Naïve Bayes)

Valence: 2 categorie
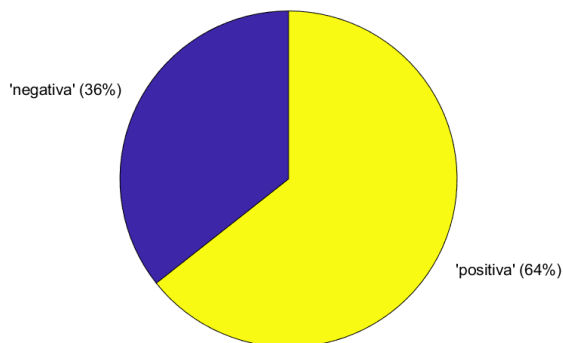
Feature ranking (ANOVA)

1. FeatureCongestion   15.5986
2. SizeInBytes   15.3186
3. SubbandEntropy   10.7848
4. SF768_384   8.5609
5. SF384_192   7.9626
6. SF192_96   7.1149
7. SF96_48   6.3492
8. Colorfulness   5.4283
9. AverageLuminosity   4.6796
10. SF48_24   3.9719
11. SF6_3   3.9378
12. SF24_12   2.8558
13. SFresidual   2.7921
14. Contrast   0.3906
15. SF12_6   0.1311

Valence: 3 categorie
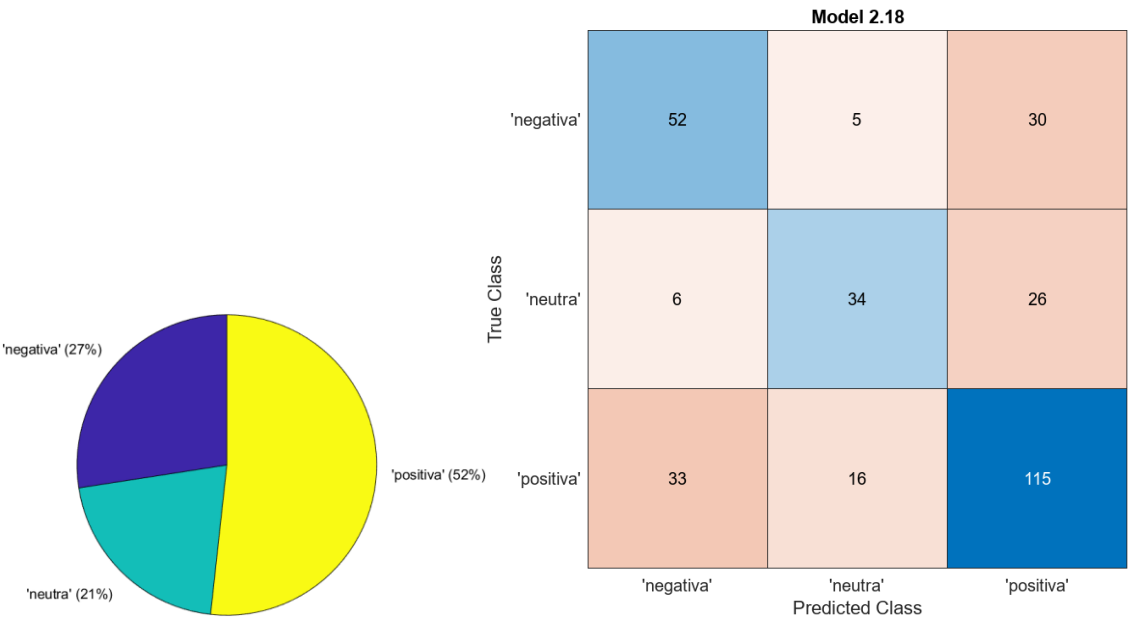
Arousal: 2 categorie
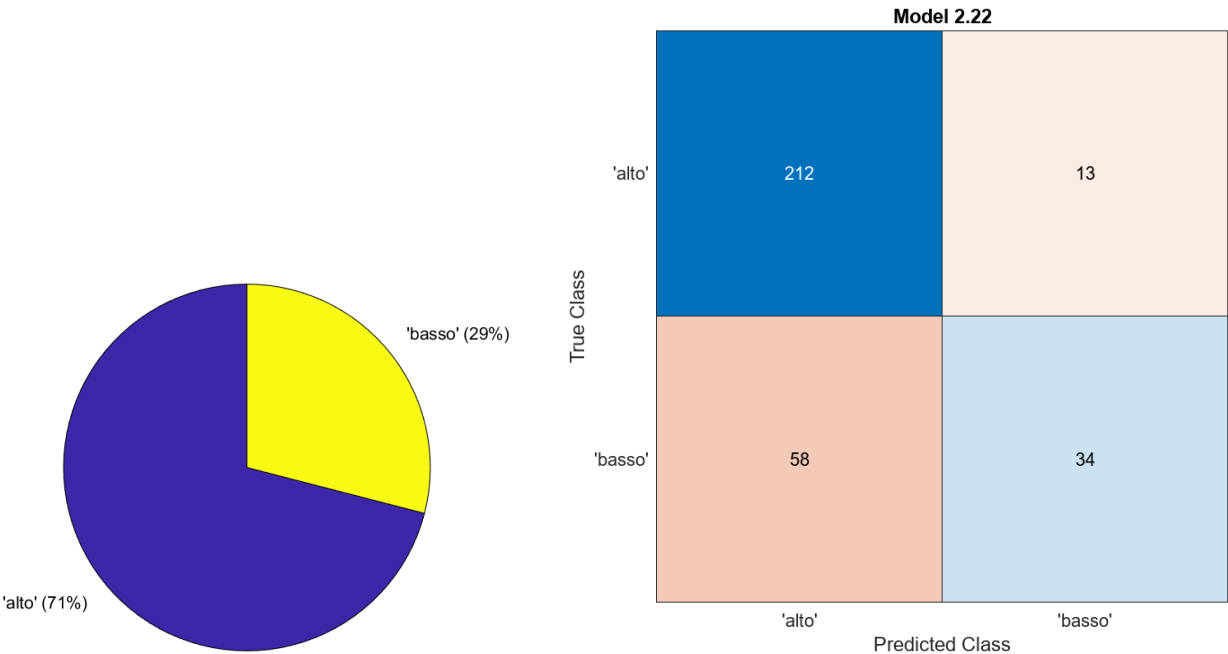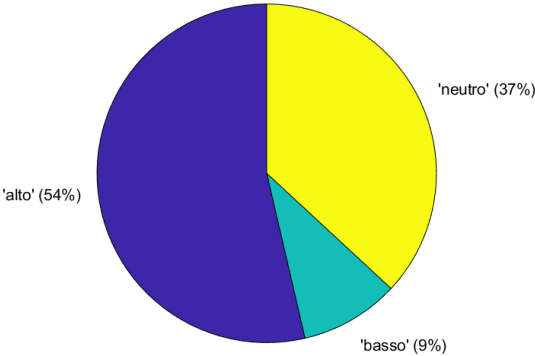

Feature ranking (ANOVA)

1. SubbandEntropy   24.3526
2. FeatureCongestion   21.2110
3. SF768_384   18.4129
4. SizeInBytes   16.8706
5. SF384_192   13.2722
6. AverageLuminosity   10.2642
7. SFresidual   9.0856
8. SF192_96   6.3478
9. SF96_48   3.3183
10. Colorfulness   1.3457
11. SF48_24   1.1935

12. Contrast	1.1347
13. SF12_6	0.2604
14. SF6_3	0.1779
15. SF24_12	0.1500

Arousal: 3 categorie

Model 2.17

Sports

Sports	Accuratezza massima (%) e modello		
	15 features	10 features	5 features
Valenza 2 cat.	96,0 (NN)	96,0 (NN)	96,0 (Naive Bayes)
non normalized	*96,0 (NN, KNN,..)*		
Valenza 3 cat.	84,0 (SVM, KNN, …)	84,0 (SVM, KNN, …)	84,0 (KNN, Kernel)
Arousal 2 cat.	n.c.	n.c.	n.c.
Arousal 3 cat.	96,0 (NN, KNN, …)	96,0 (NN, KNN, …)	96,0 (NN, KNN, …)

Valence: 2 categorie
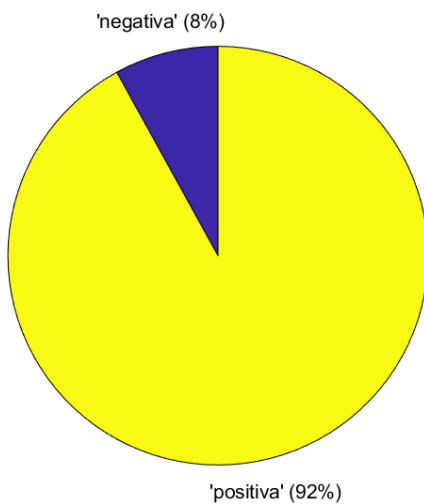
Model 4.7

Feature ranking (ANOVA)

1. SF24_12   5.5523
2. SF6_3   4.9749
3. AverageLuminosity 4.9461
4. SF384_192   4.0600
5. SFresidual   3.8632
6. SF48_24   2.8451
7. SF192_96   2.8382
8. SF96_48   2.7564
9. SizeInBytes   2.3316
10. SF768_384   2.3132
11. Contrast   1.8063
12. Colorfulness   1.7913
13. SF12_6   1.0578
14. FeatureCongestion 0.4420
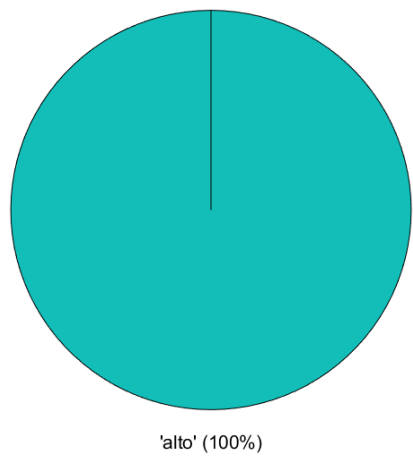15. SubbandEntropy   0.0166
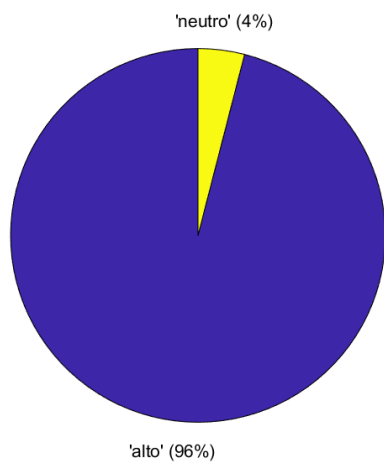
Valence: 3 categorie

Model 4.18

Arousal: 2 categorie

'alto' (100%)

Arousal: 3 categorie

'neutro' (4%)

'alto' (96%)

Model 4.27

Feature ranking (ANOVA)

1. SF48_24   1.8182
2. SF96_48   1.7379
3. SF24_12   1.6137
4. SF192_96   1.5415
5. SFresidual   1.0769
6. SF12_6   0.8593
7. AverageLuminosity   0.8003
8. SF768_384   0.7752
9. FeatureCongestion   0.5369
10. SF6_3   0.3258
11. Contrast   0.2324
12. SF384_192   0.0765
13. SizeInBytes   0.0675
14. SubbandEntropy   0.0457
15. Colorfulness   0.0420