**Algorithm 2 - Train Random Forest Image Classifier starting...**

C:\QGIS\_RemoteSensing\_64bits\QGIS\OTB\bin\otbcli\_TrainImagesClassifier

-io.il

"E:\PFE\PFE METZ\IMAGES\CLASSIFICATION\NDVI\_NDWI.tif "

-io.vd

"E:/PFE/PFE METZ/IMAGES/CLASSIFICATION/Training.shp "

-sample.vfn

CODE

-io.imstat

E:/PFE/PFE METZ/IMAGES/CLASSIFICATION/Image\_stat.xml

-classifier.rf.nbtrees

100

-classifier.rf.max

25

-classifier.rf.min

25

-classifier.rf.ra

0

-classifier.rf.cat

10

-classifier.rf.var

0

-classifier.rf.acc

0.01

-sample.bm

1

-sample.mt

1000

-sample.mv

1000

-sample.vtr

0.5

-classifier

rf

-rand

1

-io.confmatout

"E:/PFE/PFE METZ/IMAGES/CLASSIFICATION/MATRICE\_CONFUSION.csv"

-io.out

"E:/PFE/PFE METZ/IMAGES/CLASSIFICATION/MODELE.txt"

2020 Apr 27 20:26:14 : Application.logger (INFO) Polygon analysis...

Analyse polygons...: 0% [ ]

2020 Apr 27 20:26:41 : Application.logger (INFO)

2020 Apr 27 20:26:14 : Application.logger (INFO) Elevation management: setting default height above ellipsoid to 0 meters

2020 Apr 27 20:26:14 : Application.logger (INFO) Reprojecting input vectors...

2020 Apr 27 20:26:41 : Application.logger (INFO) Sampling rates...

2020 Apr 27 20:26:42 : Application.logger (INFO)

2020 Apr 27 20:26:42 : Application.logger (INFO) Sampling strategy : fit the number of samples based on the smallest class

2020 Apr 27 20:26:42 : Application.logger (INFO) Sampling rates for image 1 : className requiredSamples totalSamples rate

1 90 2760848 3.25987e-05

11 90 366502 0.000245565

15 90 826 0.108959

16 90 364270 0.000247069

17 90 350555 0.000256736

18 90 4834968 1.86144e-05

19 90 398031 0.000226113

2 90 7688987 1.17051e-05

20 90 84712 0.00106242

21 90 644330 0.00013968

22 90 1237 0.0727567

24 90 468390 0.000192148

25 90 238402 0.000377514

28 90 96059 0.000936924

3 90 318253 0.000282794

30 90 27871 0.00322916

31 90 4589 0.0196121

32 90 1240 0.0725806

4 90 221625 0.000406091

5 90 398082 0.000226084

6 90 38362 0.00234607

7 90 370423 0.000242965

8 90 17695 0.00508618

9 90 90 1

2020 Apr 27 20:26:42 : Application.logger (INFO) Sample selection...

Selecting positions with periodic sampler...: 0% [ ]

2020 Apr 27 20:27:12 : Application.logger (INFO)

2020 Apr 27 20:26:42 : Application.logger (INFO) Elevation management: setting default height above ellipsoid to 0 meters

2020 Apr 27 20:26:42 : Application.logger (INFO) Sampling strategy : set number of samples for each class

2020 Apr 27 20:26:42 : Application.logger (INFO) Sampling rates : className requiredSamples totalSamples rate

1 90 2760848 3.25987e-05

11 90 366502 0.000245565

15 90 826 0.108959

16 90 364270 0.000247069

17 90 350555 0.000256736

18 90 4834968 1.86144e-05

19 90 398031 0.000226113

2 90 7688987 1.17051e-05

20 90 84712 0.00106242

21 90 644330 0.00013968

22 90 1237 0.0727567

24 90 468390 0.000192148

25 90 238402 0.000377514

28 90 96059 0.000936924

3 90 318253 0.000282794

30 90 27871 0.00322916

31 90 4589 0.0196121

32 90 1240 0.0725806

4 90 221625 0.000406091

5 90 398082 0.000226084

6 90 38362 0.00234607

7 90 370423 0.000242965

8 90 17695 0.00508618

9 90 90 1

2020 Apr 27 20:26:42 : Application.logger (INFO) Reprojecting input vectors...

2020 Apr 27 20:27:12 : Application.logger (INFO) Sample extraction...

Extracting sample values...: 0% [ ]

Warning 1: Value -3.40282306073709653e+38 of field value\_1 of feature 605 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_5 of feature 605 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_5 of feature 613 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_0 of feature 617 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_1 of feature 617 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_5 of feature 617 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_0 of feature 606 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_1 of feature 606 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_5 of feature 606 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_0 of feature 610 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_1 of feature 610 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_5 of feature 610 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_0 of feature 614 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_1 of feature 614 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_5 of feature 614 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_0 of feature 618 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_1 of feature 618 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_5 of feature 618 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_0 of feature 607 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_1 of feature 607 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_5 of feature 607 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_0 of feature 611 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_1 of feature 611 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_5 of feature 611 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_0 of feature 615 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_1 of feature 615 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_5 of feature 615 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_0 of feature 604 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_1 of feature 604 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_5 of feature 604 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_0 of feature 608 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_1 of feature 608 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_5 of feature 608 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_5 of feature 612 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_0 of feature 616 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_1 of feature 616 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_5 of feature 616 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_1 of feature 1059 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_0 of feature 1063 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_1 of feature 1063 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_0 of feature 1058 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_1 of feature 1058 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_5 of feature 1184 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_5 of feature 1192 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_5 of feature 1185 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_5 of feature 1189 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_5 of feature 1193 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_5 of feature 1178 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_5 of feature 1186 not successfully written. Possibly due to too larger number with respect to field width

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Warning 1: Value -3.40282306073709653e+38 of field value\_5 of feature 1194 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_5 of feature 1175 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_5 of feature 1179 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_5 of feature 1187 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_5 of feature 1191 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_5 of feature 1195 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_1 of feature 1067 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_5 of feature 1067 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_0 of feature 1068 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_1 of feature 1068 not successfully written. Possibly due to too larger number with respect to field width

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Warning 1: Value -3.40282306073709653e+38 of field value\_1 of feature 1069 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_5 of feature 1069 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709653e+38 of field value\_5 of feature 1495 not successfully written. Possibly due to too larger number with respect to field width

Split samples between training and validation...: 0% [ ]

Warning 1: Value -3.40282306073709668e+22 of field value\_1 of feature 293 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_5 of feature 293 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_0 of feature 294 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_1 of feature 294 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_5 of feature 294 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_0 of feature 295 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_1 of feature 295 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_5 of feature 295 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_0 of feature 296 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_1 of feature 296 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_5 of feature 296 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_5 of feature 297 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_0 of feature 298 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_1 of feature 298 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_5 of feature 298 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_0 of feature 299 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_1 of feature 299 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_5 of feature 299 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_0 of feature 300 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_1 of feature 300 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_5 of feature 300 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_0 of feature 280 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_1 of feature 280 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_5 of feature 280 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_0 of feature 281 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_1 of feature 281 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_5 of feature 281 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_0 of feature 283 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_1 of feature 283 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_5 of feature 283 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_5 of feature 284 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_0 of feature 285 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_1 of feature 285 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_5 of feature 285 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_0 of feature 286 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_1 of feature 286 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_5 of feature 286 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_1 of feature 511 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_0 of feature 513 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_1 of feature 513 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_0 of feature 499 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_1 of feature 499 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_0 of feature 538 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_1 of feature 538 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_5 of feature 538 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_1 of feature 526 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_5 of feature 526 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_0 of feature 527 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_1 of feature 527 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_5 of feature 527 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_5 of feature 575 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_5 of feature 578 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_5 of feature 579 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_5 of feature 580 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_5 of feature 581 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_5 of feature 582 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_5 of feature 583 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_5 of feature 565 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_5 of feature 566 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_5 of feature 569 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_5 of feature 570 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_5 of feature 572 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_5 of feature 573 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_5 of feature 574 not successfully written. Possibly due to too larger number with respect to field width

Warning 1: Value -3.40282306073709668e+22 of field value\_5 of feature 739 not successfully written. Possibly due to too larger number with respect to field width

2020 Apr 27 20:28:48 : Application.logger (INFO) Model training...

2020 Apr 27 20:28:48 : Application.logger (INFO)

2020 Apr 27 20:28:48 : Application.logger (INFO) Reading vector file 1/1

2020 Apr 27 20:28:48 : Application.logger (INFO) Reading vector file 1/1

2020 Apr 27 20:28:48 : Application.logger (INFO) Predicted list size : 1080

2020 Apr 27 20:28:48 : Application.logger (INFO) ValidationLabeledListSample size : 1080

2020 Apr 27 20:28:48 : Application.logger (INFO) Training performances:

2020 Apr 27 20:28:48 : Application.logger (INFO) Confusion matrix (rows = reference labels, columns = produced labels):

[1] [2] [3] [4] [5] [6] [7] [8] [9] [11] [15] [16] [17] [18] [19] [20] [21] [22] [24] [25] [28] [30] [31] [32]

[ 1] 0 0 45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[ 2] 0 0 45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[ 3] 0 0 45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[ 4] 0 0 44 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0

[ 5] 0 0 41 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 4 0 0

[ 6] 0 0 45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[ 7] 0 0 44 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0

[ 8] 0 0 41 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 4 0 0

[ 9] 0 0 45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[11] 0 0 44 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0

[15] 0 0 45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[16] 0 0 45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[17] 0 0 28 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 17 0 0

[18] 0 0 41 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 4 0 0

[19] 0 0 41 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 4 0 0

[20] 0 0 43 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2 0 0

[21] 0 0 45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[22] 0 0 32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 13 0 0

[24] 0 0 45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[25] 0 0 45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

[28] 0 0 41 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 3 0 1

[30] 0 0 14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 31 0 0

[31] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 41 4

[32] 0 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 8 34

2020 Apr 27 20:28:48 : Application.logger (INFO) Precision of class [1] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Recall of class [1] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) F-score of class [1] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Precision of class [2] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Recall of class [2] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) F-score of class [2] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Precision of class [3] vs all: 0.0496141

2020 Apr 27 20:28:48 : Application.logger (INFO) Recall of class [3] vs all: 1

2020 Apr 27 20:28:48 : Application.logger (INFO) F-score of class [3] vs all: 0.0945378

2020 Apr 27 20:28:48 : Application.logger (INFO) Precision of class [4] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Recall of class [4] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) F-score of class [4] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Precision of class [5] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Recall of class [5] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) F-score of class [5] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Precision of class [6] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Recall of class [6] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) F-score of class [6] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Precision of class [7] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Recall of class [7] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) F-score of class [7] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Precision of class [8] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Recall of class [8] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) F-score of class [8] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Precision of class [9] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Recall of class [9] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) F-score of class [9] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Precision of class [11] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Recall of class [11] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) F-score of class [11] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Precision of class [15] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Recall of class [15] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) F-score of class [15] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Precision of class [16] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Recall of class [16] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) F-score of class [16] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Precision of class [17] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Recall of class [17] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) F-score of class [17] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Precision of class [18] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Recall of class [18] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) F-score of class [18] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Precision of class [19] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Recall of class [19] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) F-score of class [19] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Precision of class [20] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Recall of class [20] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) F-score of class [20] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Precision of class [21] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Recall of class [21] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) F-score of class [21] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Precision of class [22] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Recall of class [22] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) F-score of class [22] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Precision of class [24] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Recall of class [24] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) F-score of class [24] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Precision of class [25] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Recall of class [25] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) F-score of class [25] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Precision of class [28] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Recall of class [28] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) F-score of class [28] vs all: 0

2020 Apr 27 20:28:48 : Application.logger (INFO) Precision of class [30] vs all: 0.364706

2020 Apr 27 20:28:48 : Application.logger (INFO) Recall of class [30] vs all: 0.688889

2020 Apr 27 20:28:48 : Application.logger (INFO) F-score of class [30] vs all: 0.476923

2020 Apr 27 20:28:48 : Application.logger (INFO) Precision of class [31] vs all: 0.836735

2020 Apr 27 20:28:48 : Application.logger (INFO) Recall of class [31] vs all: 0.911111

2020 Apr 27 20:28:48 : Application.logger (INFO) F-score of class [31] vs all: 0.87234

2020 Apr 27 20:28:48 : Application.logger (INFO) Precision of class [32] vs all: 0.871795

2020 Apr 27 20:28:48 : Application.logger (INFO) Recall of class [32] vs all: 0.755556

2020 Apr 27 20:28:48 : Application.logger (INFO) F-score of class [32] vs all: 0.809524

2020 Apr 27 20:28:48 : Application.logger (INFO) Global performance, Kappa index: 0.102415

2020 Apr 27 20:28:48 : Application.logger (INFO) mapOfIndicesValid[0] = 1

2020 Apr 27 20:28:48 : Application.logger (INFO) mapOfIndicesValid[1] = 2

2020 Apr 27 20:28:48 : Application.logger (INFO) mapOfIndicesValid[2] = 3

2020 Apr 27 20:28:48 : Application.logger (INFO) mapOfIndicesValid[3] = 4

2020 Apr 27 20:28:48 : Application.logger (INFO) mapOfIndicesValid[4] = 5

2020 Apr 27 20:28:48 : Application.logger (INFO) mapOfIndicesValid[5] = 6

2020 Apr 27 20:28:48 : Application.logger (INFO) mapOfIndicesValid[6] = 7

2020 Apr 27 20:28:48 : Application.logger (INFO) mapOfIndicesValid[7] = 8

2020 Apr 27 20:28:48 : Application.logger (INFO) mapOfIndicesValid[8] = 9

2020 Apr 27 20:28:48 : Application.logger (INFO) mapOfIndicesValid[9] = 11

2020 Apr 27 20:28:48 : Application.logger (INFO) mapOfIndicesValid[10] = 15

2020 Apr 27 20:28:48 : Application.logger (INFO) mapOfIndicesValid[11] = 16

2020 Apr 27 20:28:48 : Application.logger (INFO) mapOfIndicesValid[12] = 17

2020 Apr 27 20:28:48 : Application.logger (INFO) mapOfIndicesValid[13] = 18

2020 Apr 27 20:28:48 : Application.logger (INFO) mapOfIndicesValid[14] = 19

2020 Apr 27 20:28:48 : Application.logger (INFO) mapOfIndicesValid[15] = 20

2020 Apr 27 20:28:48 : Application.logger (INFO) mapOfIndicesValid[16] = 21

2020 Apr 27 20:28:48 : Application.logger (INFO) mapOfIndicesValid[17] = 22

2020 Apr 27 20:28:48 : Application.logger (INFO) mapOfIndicesValid[18] = 24

2020 Apr 27 20:28:48 : Application.logger (INFO) mapOfIndicesValid[19] = 25

2020 Apr 27 20:28:48 : Application.logger (INFO) mapOfIndicesValid[20] = 28

2020 Apr 27 20:28:48 : Application.logger (INFO) mapOfIndicesValid[21] = 30

2020 Apr 27 20:28:48 : Application.logger (INFO) mapOfIndicesValid[22] = 31

2020 Apr 27 20:28:48 : Application.logger (INFO) mapOfIndicesValid[23] = 32

2020 Apr 27 20:28:48 : Application.logger (INFO) Final clean-up ...

Converting outputs

Loading resulting layers

Algorithm 2 - Train Random Forest Image Classifier finished