

NOISELESS CASE.

Features have been extracted.

Training completed for all features.

Blind SVM results for all features

Warning: Ignoring extra legend entries.

> In legend>set_children_and_strings (line 646)

In legend>make_legend (line 316)

In legend (line 259)

In validationsvm (line 24)

In final (line 59)

For SVM TP = 2 TN = 13 FP = 5 FN = 16 Sn = 0.111111 Sp = 0.722222 Accuracy = 41.666667

Blind Adaboost results for all features

Warning: Ignoring extra legend entries.

> In legend>set_children_and_strings (line 646)

In legend>make_legend (line 316)

In legend (line 259)

In validationada (line 22)

In final (line 61)

For SVM TP = 9 TN = 8 FP = 10 FN = 9 Sn = 0.500000 Sp = 0.444444 Accuracy = 47.222222

Blind RF results for all features

Warning: Ignoring extra legend entries.

> In legend>set_children_and_strings (line 646)

In legend>make_legend (line 316)

In legend (line 259)

In validationrf (line 22)

In final (line 63)

For SVM TP = 7 TN = 10 FP = 8 FN = 11 Sn = 0.388889 Sp = 0.555556 Accuracy = 47.222222

Training completed - Transform based features only

Blind SVM results for transform based features

Warning: Ignoring extra legend entries.

> In legend>set_children_and_strings (line 646)

In legend>make_legend (line 316)

In legend (line 259)

In validationsvm (line 24)

In final (line 94)

For SVM TP = 2 TN = 13 FP = 5 FN = 16 Sn = 0.111111 Sp = 0.722222 Accuracy = 41.666667

Blind Adaboost results for transform based features

Warning: Ignoring extra legend entries.

> In legend>set_children_and_strings (line 646)

In legend>make_legend (line 316)

In legend (line 259)

In validationada (line 22)

In final (line 96)

For SVM TP = 13 TN = 8 FP = 10 FN = 5 Sn = 0.722222 Sp = 0.444444 Accuracy = 58.333333

Blind RF results for transform based features

Warning: Ignoring extra legend entries.

```
> In legend>set_children_and_strings (line 646)
  In legend>make_legend (line 316)
  In legend (line 259)
  In validationrf (line 22)
  In final (line 98)
```

For SVM TP = 8 TN = 11 FP = 7 FN = 10 Sn = 0.444444 Sp = 0.611111 Accuracy = 52.777778

Training completed - Spatial features only

Blind SVM results for spatial features

Warning: Ignoring extra legend entries.

```
> In legend>set_children_and_strings (line 646)
  In legend>make_legend (line 316)
  In legend (line 259)
  In validationsvm (line 24)
  In final (line 129)
```

For SVM TP = 7 TN = 7 FP = 11 FN = 11 Sn = 0.388889 Sp = 0.388889 Accuracy = 38.888889

Blind Adaboost results for spatial features

Warning: Ignoring extra legend entries.

```
> In legend>set_children_and_strings (line 646)
  In legend>make_legend (line 316)
  In legend (line 259)
  In validationada (line 22)
  In final (line 131)
```

For SVM TP = 7 TN = 9 FP = 9 FN = 11 Sn = 0.388889 Sp = 0.500000 Accuracy = 44.444444

Blind RF results for spatial features

Warning: Ignoring extra legend entries.

```
> In legend>set_children_and_strings (line 646)
  In legend>make_legend (line 316)
  In legend (line 259)
  In validationrf (line 22)
  In final (line 133)
```

For SVM TP = 7 TN = 14 FP = 4 FN = 11 Sn = 0.388889 Sp = 0.777778 Accuracy = 58.333333

Training completed - Directional transform based features only

Blind SVM results for directional (frequency domain) features

Warning: Ignoring extra legend entries.

```
> In legend>set_children_and_strings (line 646)
  In legend>make_legend (line 316)
  In legend (line 259)
  In validationsvm (line 24)
  In final (line 164)
```

For SVM TP = 7 TN = 11 FP = 7 FN = 11 Sn = 0.388889 Sp = 0.611111 Accuracy = 50.000000

Blind Adaboost results for directional (frequency domain) features

Warning: Ignoring extra legend entries.

```
> In legend>set_children_and_strings (line 646)
```

```
In legend>make_legend (line 316)
In legend (line 259)
In validationada (line 22)
In final (line 166)
For SVM TP = 7 TN = 7 FP = 11 FN = 11 Sn = 0.388889 Sp = 0.388889 Accuracy = 38.888889
Blind RF results for directional (frequency domain) features
Warning: Ignoring extra legend entries.
> In legend>set_children_and_strings (line 646)
  In legend>make_legend (line 316)
  In legend (line 259)
  In validationrf (line 22)
  In final (line 168)
For SVM TP = 8 TN = 9 FP = 9 FN = 10 Sn = 0.444444 Sp = 0.500000 Accuracy = 47.222222
Training completed - Non-directional transform based features only
Blind SVM results for non-directional (frequency domain) features
For SVM TP = 2 TN = 13 FP = 5 FN = 16 Sn = 0.111111 Sp = 0.722222 Accuracy = 41.666667
Blind Adaboost results for non-directional (frequency domain) features
For SVM TP = 8 TN = 11 FP = 7 FN = 10 Sn = 0.444444 Sp = 0.611111 Accuracy = 52.777778
Blind RF results for non-directional (frequency domain) features
For SVM TP = 12 TN = 11 FP = 7 FN = 6 Sn = 0.666667 Sp = 0.611111 Accuracy = 63.888889
Elapsed time is 528.150053 seconds.
```

NOISY - GAUSSIAN.

```
Features have been extracted.
Training completed for all features.
Blind SVM results for all features
For SVM TP = 2 TN = 13 FP = 5 FN = 16 Sn = 0.111111 Sp = 0.722222 Accuracy = 41.666667
Blind Adaboost results for all features
For SVM TP = 3 TN = 10 FP = 8 FN = 15 Sn = 0.166667 Sp = 0.555556 Accuracy = 36.111111
Blind RF results for all features
For SVM TP = 12 TN = 12 FP = 6 FN = 6 Sn = 0.666667 Sp = 0.666667 Accuracy = 66.666667
Elapsed time is 458.272891 seconds.
```

WITH ANGULAR DISTORTION.

```
Features have been extracted.
Training completed for all features.
```

Blind SVM results for all features

For SVM TP = 2 TN = 13 FP = 5 FN = 16 Sn = 0.111111 Sp = 0.722222 Accuracy = ✓
41.666667

Blind Adaboost results for all features

For SVM TP = 1 TN = 18 FP = 0 FN = 17 Sn = 0.055556 Sp = 1.000000 Accuracy = ✓
52.777778

Blind RF results for all features

For SVM TP = 2 TN = 13 FP = 5 FN = 16 Sn = 0.111111 Sp = 0.722222 Accuracy = ✓
41.666667

Elapsed time is 457.147874 seconds.

WITH NOISE AND ANGULAR DISTORTION.

Features have been extracted.

Training completed for all features.

Blind SVM results for all features

For SVM TP = 2 TN = 13 FP = 5 FN = 16 Sn = 0.111111 Sp = 0.722222 Accuracy = ✓
41.666667

Blind Adaboost results for all features

For SVM TP = 2 TN = 17 FP = 1 FN = 16 Sn = 0.111111 Sp = 0.944444 Accuracy = ✓
52.777778

Blind RF results for all features

For SVM TP = 1 TN = 18 FP = 0 FN = 17 Sn = 0.055556 Sp = 1.000000 Accuracy = ✓
52.777778

Elapsed time is 422.406099 seconds.

Elapsed time is 422.406530 seconds.

>>