```
1 C:\Users\Kevin.DUCHARLET\Home\PycharmProjects\
   datastreamOutlierDetection\venv\Scripts\python.exe C
   :/Users/Kevin.DUCHARLET/Home/PycharmProjects/
   datastreamOutlierDetection/tests/
   oscod_parameters_selection.py
2 OSCOD k=5 R=0.1 win_size=100: 100%|
                                                   151927
   /151927 [04:13<00:00, 600.50it/s]
 3 OSCOD k=5 R=0.1 win_size=200: 100%||
                                                   151927
   /151927 [06:44<00:00, 375.53it/s]
 4 OSCOD k=5 R=0.1 win_size=500: 100%||
                                                   151927
   /151927 [14:57<00:00, 169.34it/s]
 5 OSCOD k=5 R=0.1 win_size=1000: 100%
   151927/151927 [29:26<00:00, 86.01it/s]
6 OSCOD k=5 R=0.1 win_size=2000: 100%
   151927/151927 [54:28<00:00, 46.48it/s]
 7 OSCOD k=5 R=0.1 win_size=5000: 100%|
   151927/151927 [2:04:57<00:00, 20.26it/s]
8 OSCOD k=5 R=0.2 win_size=100: 100%|
                                                   151927
  /151927 [04:15<00:00, 595.20it/s]
9 OSCOD k=5 R=0.2 win_size=200: 100%|
                                                   151927
   /151927 [07:18<00:00, 346.15it/s]
10 OSCOD k=5 R=0.2 win_size=500: 100%||
                                                   151927
  /151927 [15:36<00:00, 162.23it/s]
11 OSCOD k=5 R=0.2 win_size=1000: 100%|
   151927/151927 [30:09<00:00, 83.96it/s]
12 OSCOD k=5 R=0.2 win_size=2000: 100%||
   151927/151927 [56:46<00:00, 44.60it/s]
13 OSCOD k=5 R=0.2 win_size=5000: 100%
   151927/151927 [2:10:59<00:00, 19.33it/s]
14 OSCOD k=5 R=0.5 win_size=100: 100%||
                                                   151927
   /151927 [04:23<00:00, 575.68it/s]
15 OSCOD k=5 R=0.5 win_size=200: 100%|
                                                   151927
   /151927 [07:06<00:00, 356.08it/s]
16 OSCOD k=5 R=0.5 win_size=500: 100%|
                                                   151927
   /151927 [15:41<00:00, 161.44it/s]
17 OSCOD k=5 R=0.5 win_size=1000: 100%|
   151927/151927 [30:23<00:00, 83.31it/s]
18 OSCOD k=5 R=0.5 win_size=2000: 100%|
   151927/151927 [57:15<00:00, 44.23it/s]
19 OSCOD k=5 R=0.5 win_size=5000: 100%|
   151927/151927 [2:13:27<00:00, 18.97it/s]
```

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20 OSCOD k=5 R=1 win_size=100: 100%||
                                                 151927/
   151927 [04:09<00:00, 609.11it/s]
21 OSCOD k=5 R=1 win_size=200: 100%||
                                                 151927/
   151927 [07:13<00:00, 350.65it/s]
22 OSCOD k=5 R=1 win_size=500: 100%||
                                                 151927/
   151927 [16:05<00:00, 157.41it/s]
23 OSCOD k=5 R=1 win_size=1000: 100%
                                                  151927/
   151927 [31:56<00:00, 79.27it/s]
24 OSCOD k=5 R=1 win_size=2000: 100%|
                                                  151927/
   151927 [1:07:50<00:00, 37.32it/s]
25 OSCOD k=5 R=1 win_size=5000: 100%|
                                                  151927/
   151927 [2:15:41<00:00, 18.66it/s]
26 OSCOD k=5 R=1.2 win_size=100: 100%||
                                                   151927
   /151927 [04:39<00:00, 543.02it/s]
27 OSCOD k=5 R=1.2 win_size=200: 100%|
                                                   151927
   /151927 [08:03<00:00, 314.52it/s]
28 OSCOD k=5 R=1.2 win_size=500: 100%||
                                                   151927
   /151927 [17:35<00:00, 143.95it/s]
29 OSCOD k=5 R=1.2 win_size=1000: 100%||
   151927/151927 [31:32<00:00, 80.26it/s]
30 OSCOD k=5 R=1.2 win_size=2000: 100%|
   151927/151927 [1:02:46<00:00, 40.33it/s]
31 OSCOD k=5 R=1.2 win_size=5000:
                                   66%|
                                                    99847
   /151927 [2:40:09<1:23:32, 10.39it/s]
32 Traceback (most recent call last):
     File "C:\Users\Kevin.DUCHARLET\Home\PycharmProjects
33
   \datastreamOutlierDetection\tests\methods_comparison.
   py", line 81, in compute
34
       with open(filename, "rb") as f:
35 FileNotFoundError: [Errno 2] No such file or
   directory: 'choose_params_oscod_lc__OSCOD k=5 R=1.2
   win_size=5000.pickle'
36
37 During handling of the above exception, another
   exception occurred:
38
39 Traceback (most recent call last):
     File "C:\Users\Kevin.DUCHARLET\Home\PycharmProjects
40
   \datastreamOutlierDetection\tests\
   oscod_parameters_selection.py", line 43, in <module>
       compute(METHODS, x_train, x_test, y_test, "
41
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- 41 choose_params_oscod_lc", show=False, close=True)
- 42 File "C:\Users\Kevin.DUCHARLET\Home\PycharmProjects \datastreamOutlierDetection\tests\methods_comparison. py", line 91, in compute
- 43 y_decision[i] = model.eval_update(x_test[i].
 reshape(1, -1))
- 44 File "C:\Users\Kevin.DUCHARLET\Home\PycharmProjects \datastreamOutlierDetection\dsod\distance.py", line 171, in eval_update
- evals[i] = self.decision_function(xx.reshape(1, 1))
- 46 File "C:\Users\Kevin.DUCHARLET\Home\PycharmProjects \datastreamOutlierDetection\dsod\distance.py", line 156, in decision_function
- 47 return self.__offset__ self.score_samples(x)
- 48 File "C:\Users\Kevin.DUCHARLET\Home\PycharmProjects \datastreamOutlierDetection\dsod\distance.py", line 152, in score_samples
- 49 res[i] = self.mt.score_point(self.point_type(xx
), self.R)
- 50 File "C:\Users\Kevin.DUCHARLET\Home\PycharmProjects \datastreamOutlierDetection\dsod\utils.py", line 791 , in score_point
- 51 return len(self.range_query(point, R))
- File "C:\Users\Kevin.DUCHARLET\Home\PycharmProjects \datastreamOutlierDetection\dsod\utils.py", line 796 , in range_query
- 53 self.__range_query__(point, R, self.dist(point),
 res)
- 54 File "C:\Users\Kevin.DUCHARLET\Home\PycharmProjects \datastreamOutlierDetection\dsod\utils.py", line 811 , in __range_query__
- child.__range_query__(point, R, n_dist, res)
- 56 File "C:\Users\Kevin.DUCHARLET\Home\PycharmProjects \datastreamOutlierDetection\dsod\utils.py", line 811 , in __range_query__
- 57 child.__range_query__(point, R, n_dist, res)
- File "C:\Users\Kevin.DUCHARLET\Home\PycharmProjects \datastreamOutlierDetection\dsod\utils.py", line 811 , in __range_query__
- 59 child.__range_query__(point, R, n_dist, res)

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File - oscod_parameters_selection
      [Previous line repeated 3 more times]
      File "C:\Users\Kevin.DUCHARLET\Home\
 61
    PycharmProjects\datastreamOutlierDetection\dsod\
    utils.py", line 809, in __range_query__
 62
        n_dist = child.center.dist(point)
 63
      File "C:\Users\Kevin.DUCHARLET\Home\
    PycharmProjects\datastreamOutlierDetection\dsod\
    utils.py", line 904, in dist
        return np.linalg.norm(self.values - elt.values)
 64
    if type(elt) == MTreePoint else np.linalg.norm(self.
    values - elt.center.values)
      File "<__array_function__ internals>", line 180,
 65
    in norm
      File "C:\Users\Kevin.DUCHARLET\Home\
 66
    PycharmProjects\datastreamOutlierDetection\venv\lib\
    site-packages\numpy\linalg\linalg.py", line 2517, in
     norm
        ret = sqrt(sqnorm)
 67
 68 KeyboardInterrupt
 69
 70 Process finished with exit code -1073741510 (
    0xC000013A: interrupted by Ctrl+C)
 71
```