Appendix A. Adding a multiview classifier

In order to plug a multi-view classifier, the user has to add the following python file named after the classifier in the multiview_classifiers folder, and the classifier will be automatically added to the available pool.

```
1 from new_mv_algo_module import NewMVAlgo
2 from ..multiview.multiview_utils import BaseMultiviewClassifier
4 from ..utils.hyper_parameter_search import CustomRandint
6 classifier_class_name = "NewMVAlgoClassifier"
8 class NewMVAlgoClassifier(BaseMultiviewClassifier, NewMVAlgo):
      def __init__(self, param_1=50,
                       random_state=None,
                       param_2="edge"):
              BaseMultiviewClassifier.__init__(self, random_state)
              NewMVAlgo.__init__(self, param_1=param_1,
14
                                           random_state=random_state,
                                           param_2=param_2)
16
              self.param_names = ["param_1", "random_state", "param_2"]
17
              self.distribs = [CustomRandint(5,200), [random_state], ["val_1",
       "val_2"]]
19
      def fit(self, X, y, train_indices=None, view_indices=None):
20
      # This function is used to initialize the sample and view indices, in
      case they are None, it transforms them in the correct values
22
      train_indices, view_indices = get_samples_views_indices(X,
                                                                 train_indices,
24
                                                                 view_indices)
      needed_input = transform_data_if_needed(X, train_indices, view_indices)
25
26
      return NewMVAlgo.fit(self, needed_input, y[train_indices])
27
      def predict(self, X, sample_indices=None, view_indices=None):
28
      sample_indices, view_indices = get_samples_views_indices(X,
29
                                                                 sample_indices,
                                                                 view_indices)
31
      needed_input = transform_data_if_needed(X, sample_indices, view_indices)
32
      return NewMVAlgo.predict(self, needed_input)
```

Appendix B. Adding a monoview classifier

Similarly, to plug a mono-view classifier, the user has to add the following python file named after the classifier in the monoview_classifiers folder, and the classifier will be automatically added to the available pool.

```
1 import Algo
2 from ..monoview.monoview_utils import BaseMonoviewClassifier, CustomUniform,
      CustomRandint
4 classifier_class_name = "AlgoClassifier"
6 class AlgoClassifier(Algo, BaseMonoviewClassifier):
      def __init__(self, random_sate=42, trade_off=0.5, norm_type='11',
     max_depth=50)
          super(AlgoClassifier, self).__init__(random_sate=random_sate,
10
                                                trade_off=trade_off,
12
                                                norm_type=norm_type,
                                                max_depth=max_depth)
14
          self.param_names = ["trade_off", "norm_type", "max_depth"]
15
          self.distribs = [CustomUniform(),
17
                            ["11", "12"],
18
                            CustomRandint()]
```