# 1: Configure a temporary address for import the TCLR modle

In [1]:

```python
import sys
# Configure a temporary address
# locdir is the address of your computer where the folder 'TreeClassifierforLinearRegression' is located
locdir = 'D:\\TCLRUPLOAD\\Source code'
sys.path.append(locdir)
import TCLRmodel.TCLRalgorithm as TCLR
```

```
Tree Classifier for Linear Regression (TCLR) V1.0.0
TCLR Algorithm is developed by Prof.T-Y Zhang, Mr. Bin Cao et al.
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Reference : Domain knowledge guided interpretive machine learning
——— Formula discovery for the oxidation behavior of Ferritic-Martensitic steels in supercritica
l water.
2022, Nature Communications, journal paper.
-----------------------------------------------------------------
```

# 2: Set the parameters

In [2]:

```python
dataSet = "testdata.csv"
# :param dataSet: the input dataset
correlation = 'PearsonR(+)'
#  :param correlation : {'PearsonR(+)','PearsonR(-)',''MIC','R2'}, default PearsonR(+)
#      * PearsonR: (+)(-). for linear relationship
#      * MIC for no-linear relationship
#      * R2 for no-linear relationship、
minsize = 3
#  :param minsize : a int number, the minimum number of data in each leave.
threshold = 0.9
#  :param threshold : a float, less than or equal to 1, default 0.95 for PearsonR.
#   To avoid overfitting, threshold = 0.5 is suggested for MIC 0.5.
mininc = 0.01
#  :param mininc :Minimum expected gain of objective function
```

# 3: Analysis dataset by TCLR

In [3]:

```python
TCLR.start(dataSet, correlation, minsize, threshold, mininc)
```

Out[3]:

```
True
```

In [ ]: