

In [ ]:

```
import numpy as np
import pandas as pd
import os
import random
from sklearn import preprocessing
```

In [ ]:

```
train_csv_650 = r'../../data/train_and_valid_merged_csv_single_minmax_xyz/train_data_csv/train_data_csv_650.csv'
#train_csv_650_Qtot = r'../../data/train_and_valid_merged_csv_Qtot/train_data_csv/train_data_csv_650.csv'
#train_csv_inside = r'../../data/merged_csv_inside/train_inside_csv_650/train_inside_csv_650.csv'
#train_csv_outside = r'../../data/merged_csv_outside/train_outside_csv_650/train_outside_csv_650.csv'

# valid_csv_all = r'../../data/merged_csv/valid_data_csv_74/valid_data_csv_74.csv'
# valid_csv_inside = r'../../data/merged_csv_inside/valid_inside_csv_74/valid_inside_csv_74.csv'
# valid_csv_outside = r'../../data/merged_csv_outside/valid_outside_csv_74/valid_outside_csv_74.csv'
```

In [ ]:

```
df_train = pd.read_csv(train_csv_650, \
                        header = None, \
                        names=['x', 'y', 'z', 'D1A', 'D2A', 'D1B', 'D2B', 'angle', 'Qtot', 'Dtot', 'U', 'P', 'C'], \
                        encoding="utf8") #编码默认UTF-8, 若乱码自行更改

print("the lenth of df_train is %d"%len(df_train))
#print("the lenth of df_train_inside is %d"%len(df_train_inside))
#print("the lenth of df_train_outside is %d"%len(df_train_outside))
```

the lenth of df\_train is 148278770

In [ ]:

```
print(df_train.max())  
print(df_train.min())  
print(df_train.max() - df_train.min())
```

```
x          1.0000  
y          1.0000  
z          1.0000  
D1A        0.0006  
D2A        0.0003  
D1B        0.0006  
D2B        0.0003  
angle      120.0000  
Qtot       373.0800  
Dtot       0.0011  
U          0.6308  
P         2171.8000  
C         1892.6000
```

dtype: float64

```
x          0.0000  
y          0.0000  
z          0.0000  
D1A        0.0003  
D2A        0.0002  
D1B        0.0003  
D2B        0.0002  
angle      30.0000  
Qtot       45.3730  
Dtot       0.0005  
U          0.0000  
P         -52.8990  
C         600.0000
```

dtype: float64

```
x          1.0000  
y          1.0000  
z          1.0000  
D1A        0.0003  
D2A        0.0001  
D1B        0.0003  
D2B        0.0001  
angle      90.0000  
Qtot       327.7070  
Dtot       0.0006  
U          0.6308  
P         2224.6990  
C         1292.6000
```

dtype: float64