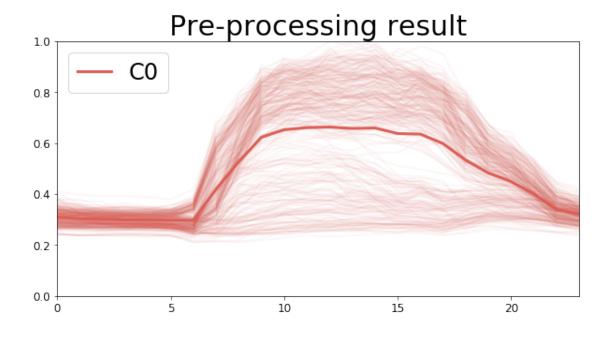
example

September 19, 2019

0.1 Demonstration the High-Resolution Load Profiling algorithm import the class for profiling from HRLP.py

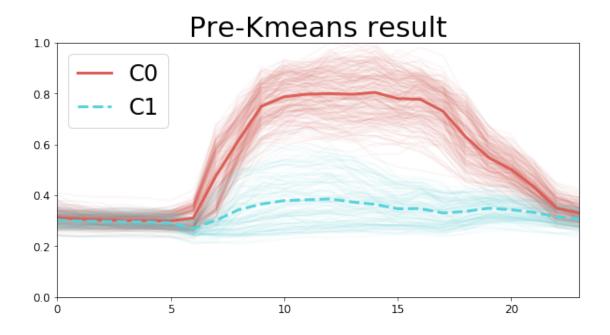
Initialization (preprocessing automatically done)

the building is metered from 2015-01-01 to 2015-12-31.

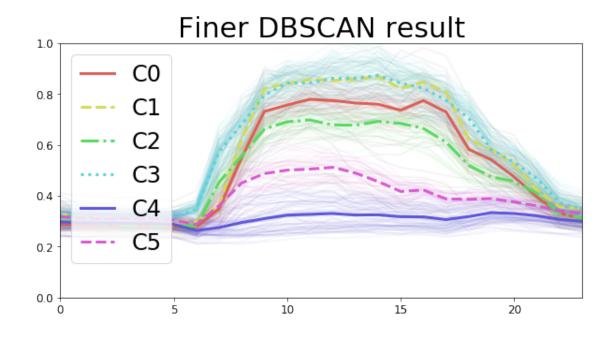


High-Resolution Load Profiling

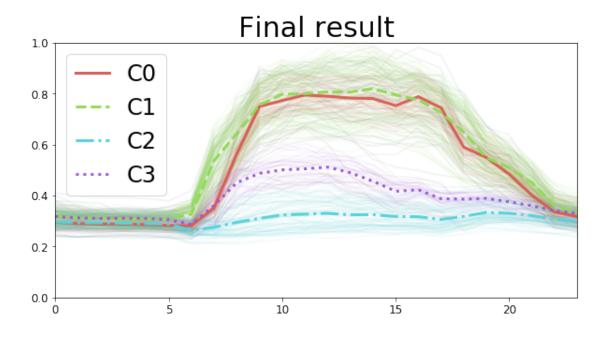
The preliminary K-means clustering resulted in 2 clusters.



In [4]: # after profiling, the result can always be plotted using the plot function
test.plot(step = 2)

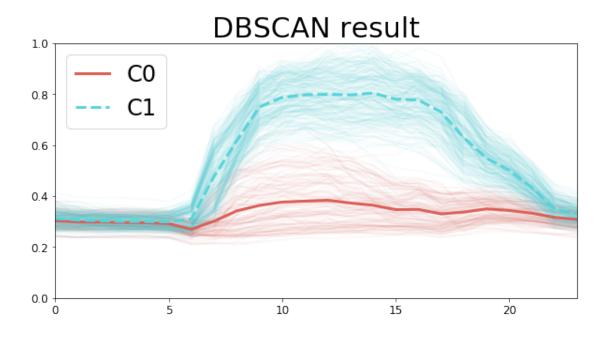


In [5]: # after profiling, the result can always be plotted using the plot function
test.plot(step = 3)

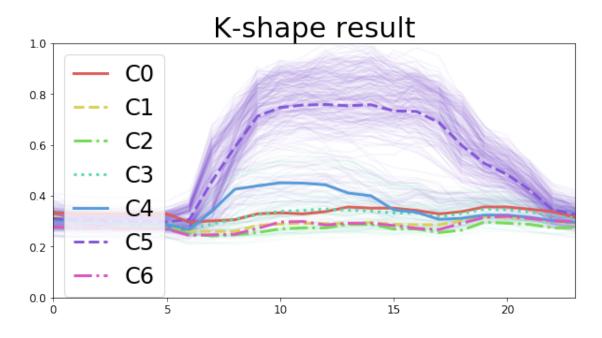


The profiling result using just K-means is plotted above as the intermediate result. Using the class methods, plot the result of other baseline methods

In [6]: test.labelExt = np.asarray(test.DBSCAN(test.data))
 test.plot(4,'DBSCAN')



In [7]: from tslearn.clustering import KShape
the iterative process of finding the optimal cluster number is skipped here
k1 = KShape(n_clusters=7,verbose=False, random_state=0).fit(np.asarray(test.data))
test.labelExt = np.asarray(k1.labels_)
test.plot(4,'K-shape')



In [8]: from tslearn.clustering import TimeSeriesKMeans
k1 = TimeSeriesKMeans(n_clusters=2,verbose=False,metric='dtw').fit(np.asarray(test.data)
test.labelExt = np.asarray(k1.labels_)
test.plot(4,'dtw')

