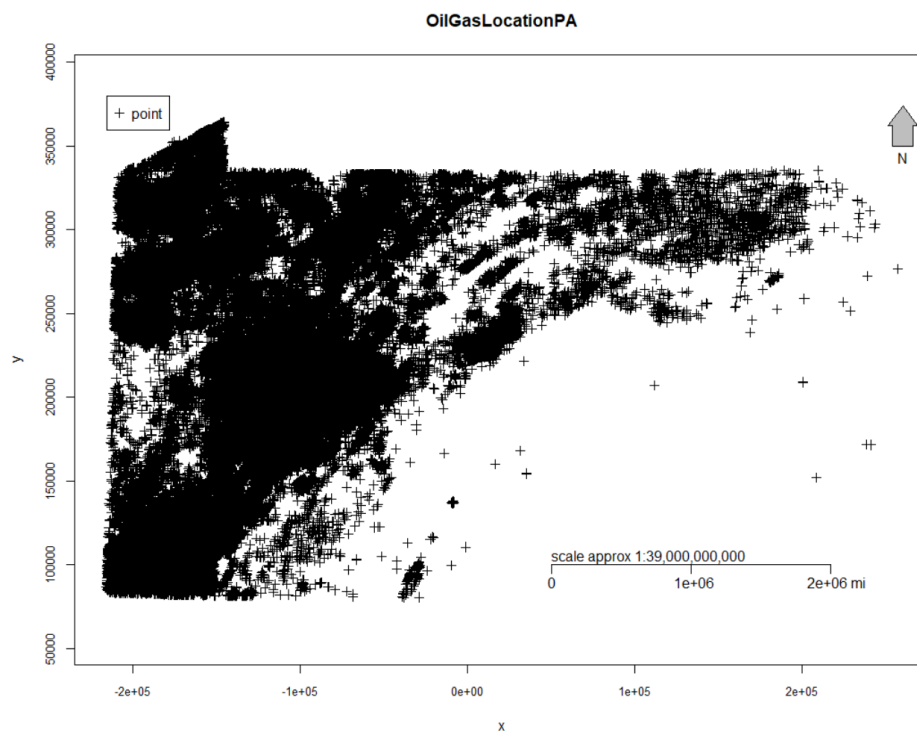
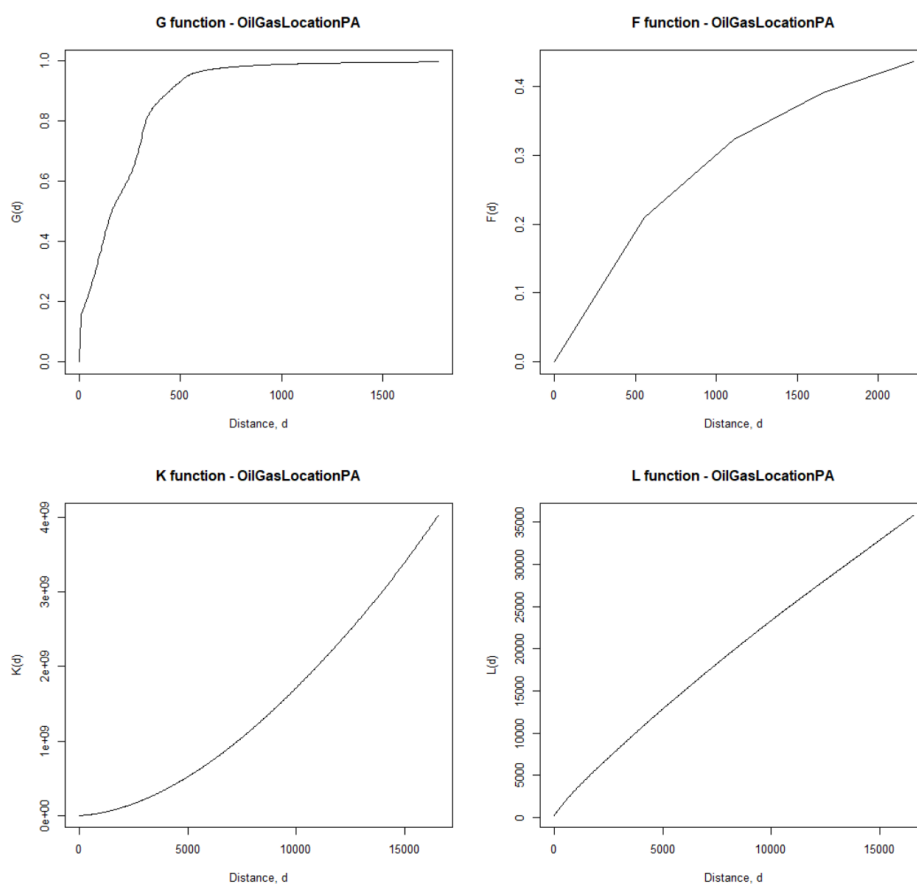


The map for the dataset:



G 、 F 、 K 、 L functions:



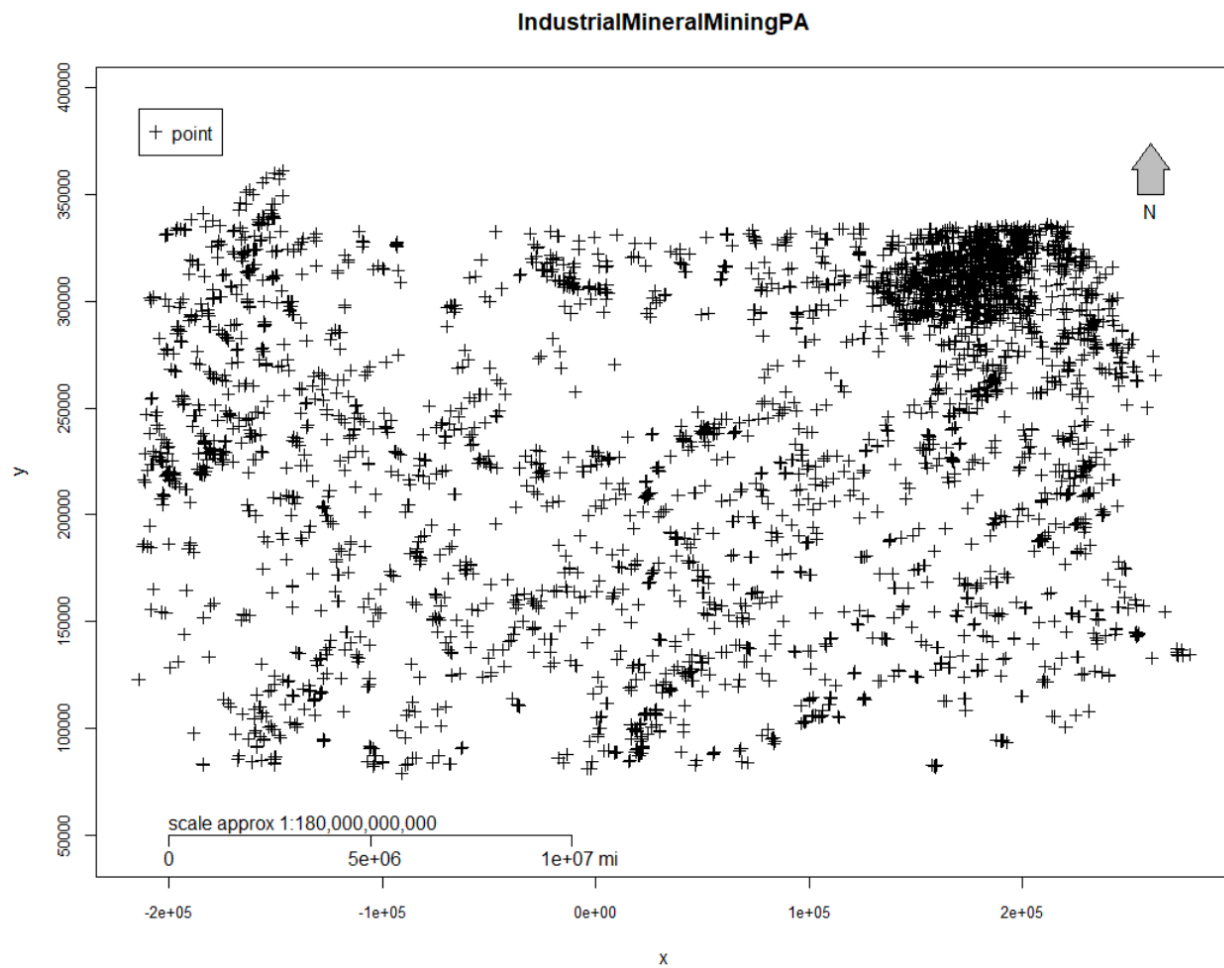
Result:

From the plots, G function rises sharply and much faster than F function, which indicates that the data set is clustered. In K function plot, $K(d) > \pi d^2$, and in L function, $L(d) > 0$, both indicate that the data set is clustered.

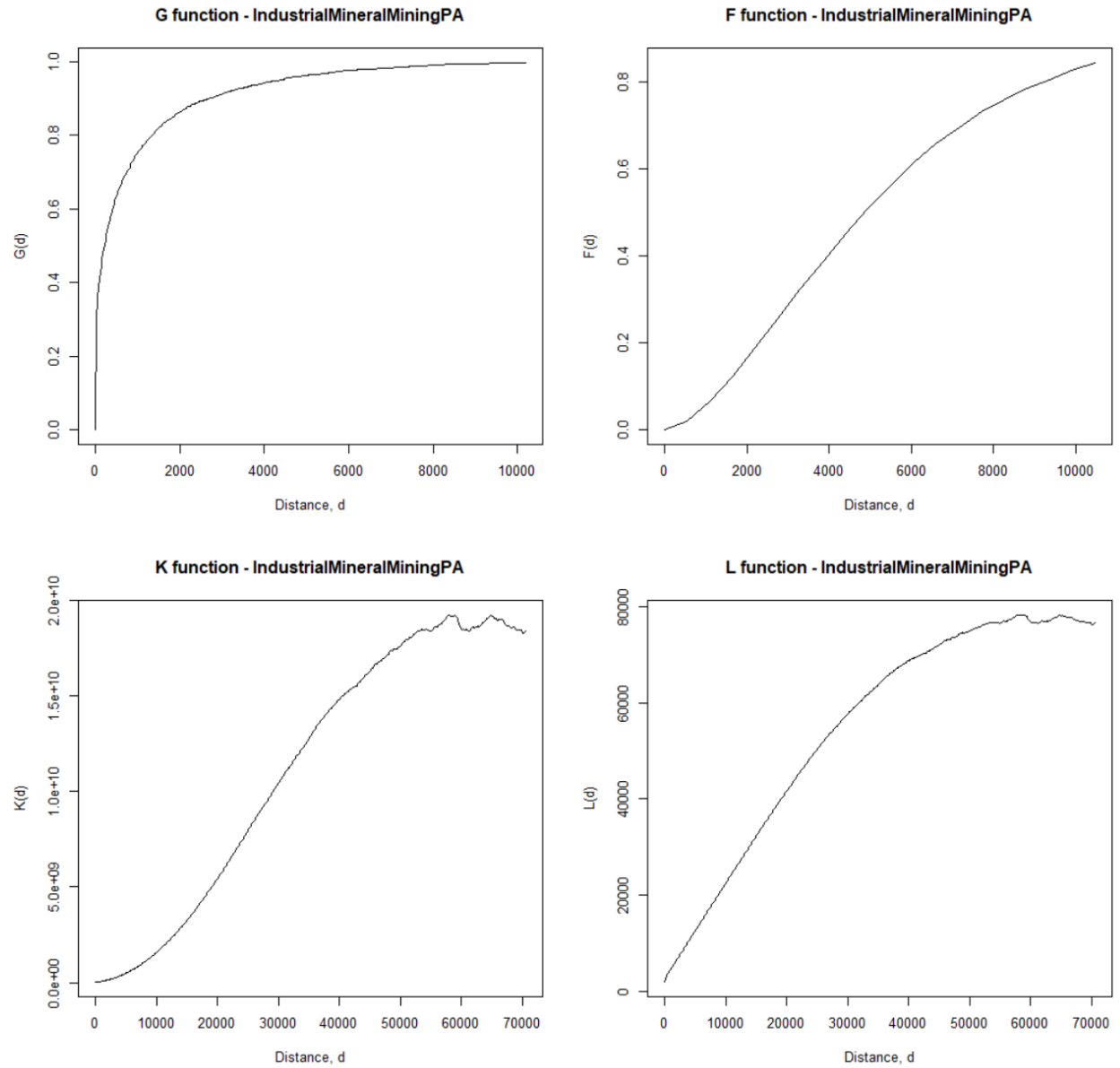
Therefore, the data set is clustered.

b. IndustrialMineralMiningPA

The map for the dataset:



G 、 F 、 K 、 L functions:



Result:

From the plots, G function rises sharply and much faster than F function, which indicates that the data set is clustered. In K function plot, $K(d) > \pi d^2$, and in L function, $L(d) > 0$, both indicate that the data set is clustered.

Therefore, the data set is clustered.

c. Compare the results between the two data sets

From the plots, all G 、 F 、 K and L functions in ‘OilGasLocation’ rise faster than those in ‘IndustrialMineralMiningPA’, which indicates the data in ‘OilGasLocation’ are much more clustered than the data in ‘IndustrialMineralMiningPA’.