

Clustering Algorithm

구름 도시공학과 일반대학원

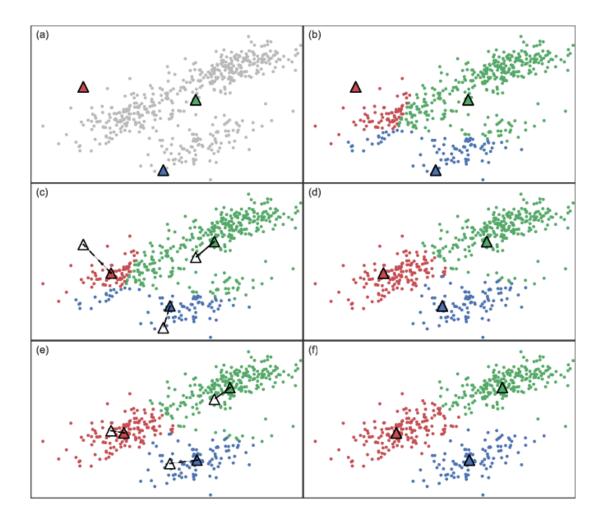
한양대학교

Clustering (군집분석)

$$X(x_1, x_2, \dots, x_n) \to y$$

$$X(x_1, x_2, \dots, x_n)$$

K-means 알고리즘



K-means 알고리즘

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Input:

D= {t1, t2, .... Tn } // Set of elements

K // Number of desired clusters

Output:

K // Set of clusters

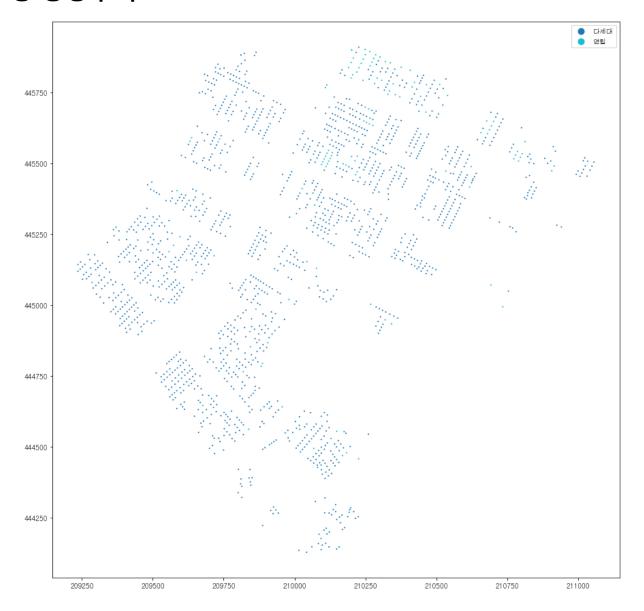
K-Means algorithm:

Assign initial values for m1, m2,.... mk

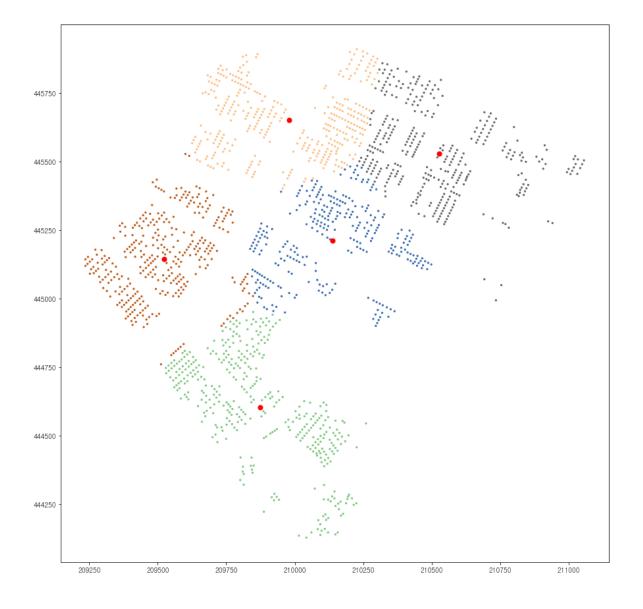
repeat

assign each item ti to the clusters which has the closest mean;
calculate new mean for each cluster;
until convergence criteria is met;
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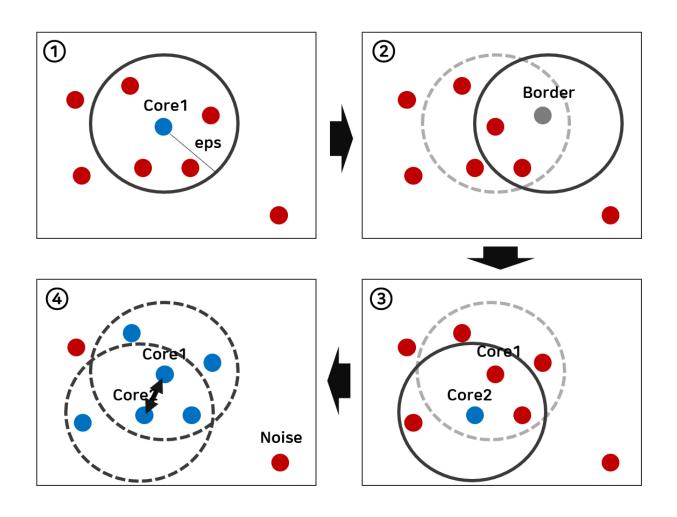
송파구 소형 공동주택



K-means 알고리즘 결과



DBSCAN(Density-based spatial clustering of applications with noise)



DBSCAN 결과

