


Clustering Overview Exercises

Exercise 1. (Clustering Methods)

List application examples for clustering and discuss which type of clustering method seems most appropriate.

Exercise 2. (, Clustering or Classification)

 Please join the  Particify Room.

1.  Decide which of the following tasks is a clustering task and which is a classification task:
 - a) Data: Travel logs of tourists. Goal: Find different types of touristic behavior.
 - b) Data: Travel logs of tourists. Goal: Determine which tourists prefer hotel vacations and which camping.
 - c) Data: Earth coordinates of points of interest. Goal: Predict the number of visitors for each point of interest.
 - d) Data: Earth coordinates of points of interest. Goal: Determine groups of nearby points of interest.
 - e) Data: Asteroid measurements. Goal: Discover different types of asteroids.
 - f) Data: Asteroid measurements. Goal: Determine which asteroids are dangerous to earth.
 - g) Data: Fotos of penguins. Goal: Determine the species of the penguins.
 - h) Data: Fotos of penguins. Goal: Determine different types of penguins, potentially indicating different sub-species.
 - i) Data: Fotos of penguins. Goal: Determine which of the penguins are male, which are female.
2. Describe another example of a dataset and a classification task as well as a clustering task on that data.
3. Revisit 1c. Which machine learning task would suggest itself much more than clustering/classification?