

Unit 3 - Week 2

Course outline

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Transcriptions

Assignment 2

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

Due on 2019-08-21, 23:59 IST.

1) HAC stands for:

1 point

- Hierarchical algorithmic clustering
- Hierarchical agglomerative clustering
- Heightened agglomerative clustering
- Hierarchical absolute clustering

No, the answer is incorrect.

Score: 0

Accepted Answers:

Hierarchical agglomerative clustering

2) _____ is a clustering procedure characterized of sequentially merging similar clusters until a single cluster is reached.

1 point

- Non-hierarchical clustering
- Hierarchical clustering
- Divisive clustering
- Agglomerative clustering

No, the answer is incorrect.

Score: 0

Accepted Answers:

Agglomerative clustering

3) A _____ is a tree diagram for displaying clustering results. Vertical lines represent clusters that are joined together.

1 point

- dendrogram
- scattergram
- scree plot
- Histogram

No, the answer is incorrect.

Score: 0

Accepted Answers:

dendrogram

4) Which of the following is true about single link clustering?

1 point

- distance between clusters is the maximum distance between their members
- distance between two clusters as the minimum distance between their members
- distance between two clusters as the average distance between their members
- none of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

distance between two clusters as the minimum distance between their members

5) What would be the loss of information if we cluster following observations into single group under ward's method? (3, 3, 2, 0, 5, 2, 6, 4, 0)

1 point

- 34
- 35.9
- 34.9
- 35

No, the answer is incorrect.

Score: 0

Accepted Answers:

34.9

6) What would be the loss of information if we cluster following observations into six groups under ward's method? (0, 0, 3, 3, 1, 2, 2, 2, 4, 4, 5)

1 point

- 0
- 1
- 0.5
- 10

No, the answer is incorrect.

Score: 0

Accepted Answers:

0

7) The metrics used for categorical data for calculating distance in clustering is:

1 point

- jaquard's coefficient
- correlation coefficient
- matching coefficient
- Maximum coordinate

No, the answer is incorrect.

Score: 0

Accepted Answers:

jaquard's coefficient

8) Which statement is not true about cluster analysis?

1 point

- Objects in each cluster tend to be similar to each other and dissimilar to objects in the other clusters.
- Cluster analysis is also called classification analysis or numerical taxonomy.
- Groups or clusters are suggested by the data, not defined a priori.
- Cluster analysis is a technique for analyzing data when the criterion or dependent variable is categorical and the independent variables are interval in nature.

No, the answer is incorrect.

Score: 0

Accepted Answers:

Cluster analysis is a technique for analyzing data when the criterion or dependent variable is categorical and the independent variables are interval in nature.

9) Which of the following is required by K-means clustering?

1 point

- defined distance metric
- number of clusters
- initial guess as to cluster centroids
- all of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

all of the above

10)The metrics based on correlation coefficient to calculate distance can be defined as:

1 point

- $r_{ij}^2 - 1$
- $1 - r_{ij}^2$
- $-r_{ij}^2 - 1$
- $r_{ij} - 1$

No, the answer is incorrect.

Score: 0

Accepted Answers:

$1 - r_{ij}^2$