Sử dụng bài Generalized intuitionistic fuzzy c-means clustering algorithm using an adaptive intuitionistic fuzzification technique (file PDF).

Yêu cầu:

1./ Đọc hiểu bài báo

2./ Code thuật toán trong bài

3./ Thay độ đo trong bài bởi các độ đo sau xem kết quả thế nào?

Dữ liệu lấy từ UCI hoặc kaggle.

https://www.kaggle.com/datasets/amirhosseinzabbah/raisin-dataset-uci

**Definition** 3. Let  and  be two any IFSs on the universal set . Distance between  and is defined by

 (14)

Some distances are as follows [27]:

+ The Hamming distance (in two –dimensional (2D)):

 (1)

+ The Hamming distance (in three –dimensional (3D)):

 (2)

+ The normalized Hamming distance:

 (3)

+ The Euclidean distance (in two-dimensional(2D)) :  (4)

The Euclidean distance (in three-dimensional (3D)):

 (5)

+ The normalized Euclidean distance:

 (6)

+ The Hausdorffs distance [12]:

 (7)

+ The Yang and Chiclana distance [34]

 (8)

+ The Wang and Xin’s distance [32]:

 (9)

+ The distance of Liu and Jiang [17]

 (10)

The distance of He et al. [14]

 (11)

The distance of Thao [30]

 (12)

The distance of Mahanta and Panda [15]:

 (13)

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