بسم الله الرحمن الرحيم

Sudan University of Science and Technology
College of Graduate Studies
College of Computer Science and Information Technology

Comparison of Two Clustering Techniques

Case Study: Breast Cancer Data

مقارنة بين تقنيتين من التقنيات العنقودية

دراسة الحالة: بيانات سرطان الثدي

A Thesis Submitted To Fulfill the Partial Requirements Of
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Abstract

The main goal of this thesis is to study two clustering methods practically. The aims of practical study are to find out the capabilities of these two methods in clustering the breast cancer data set.

Many clusters have been generated using both k-means and Two-step.

Extensive comparisons have been conducted. The main conclusion is that these two methods generate different clusters.

The main reason could be the difference in their strategies. Further, studies are needed to find more reasons.

الخلاصة

الهدف الرئيسي لهذه الأطروحة هو دراسة طريقتان التجميع عمليا. أهداف الدراسة العملية هو لمعرفة قدرات هاتين الطريقتين في تجميع مجموعة البيانات لسرطان الثدي.

لقد تم إنشاء العديد من المجموعات بإستخدام كل من k-means و Two-step.

أجريت مقارنات واسعة النطاق، والإستنتاج الرئيسي هو أن هاتين الخوارزميتان تولدان مجموعات مختلفة.

السبب الرئيسي يمكن أن يكون الفرق في إستراتيجياتهما، بالإضافة على ذلك، هناك حاجة لدراسات اكثر للعثور على المزيد من الأسباب.

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