

COMP6036: Advanced Machine Learning

An investigation into DBSCAN

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Abstract

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1 Introduction

DBSCAN (Density-Based Spatial Clustering of Applications with Noise) is a clustering algorithm introduced by Ester et al. (1996). It has three main objectives. To minimise the required domain knowledge needed to set input parameters, have the capability to discover clusters of arbitrary shapes and good performance on large spatial databases.

2 Algorithm Motivation

3 Technical Explanation

4 Conclusion and Further Work

References

Martin Ester, Hans peter Kriegel, Jrg S, and Xiaowei Xu. A density-based algorithm for discovering clusters in large spatial databases with noise. pages 226–231. AAAI Press, 1996.