Klasterisasi Tweet Terkait Dengan Pemilihan Presiden 2019 Menggunakan Ontology-based Concept Weighting dan DBSCAN

Puput Fajriati Tri Sholekah[1], Anisa Herdiani, S.T., M.T.[2], Ibnu Asror, S.T., M.T.[3]

[1,2,3]Fakultas Informatika, Universitas Telkom, Bandung
[1]puputfajriati@students.telkomuniversity.ac.id,
[2]anisaherdiani@telkomuniversity.ac.id, [3]iasror@telkomuniversity.ac.id

Abstract

Information that is on Twitter social media is growing very fast, for example, like tweets about presidential elections related to the two presidential pairs. The topic being discussed by the public regarding the presidential election on Twitter is very diverse, therefore a system is needed to group tweets based on the topic of discussion about presidential elections relating to the two candidates for presidential pairs. The purpose of the research is to find out what topics are discussed by the public during the presidential election, so that a method is needed that can group these tweets and know the performance accuracy of ontology-based concept weighting and dbscan. This study uses ontology-based concept weighting methods that are used to calculate and apply knowledge of topic hierarchical structures and dbscan to group those tweets. Based on the results of the testing, the grouping of tweets using ontology-based concept weighting and dbscan for candidate pair number 1 data produced an accuracy of 26.5% and data on candidate pair number 2 produced an accuracy of 44.16%.

Keywords: ontology, presidential elections, tweet, clustering, dbscan.