Abstract

Universities are the pinnacle of education in Indonesia to prepare the younger generation before entering the workforce. In line with Permendikbudristek Number 53 of 2023 concerning the Assurance of Higher Education Quality, each study program must define Program Learning Outcomes (PLO) to achieve the university's objectives, which will then be translated into Course Learning Outcomes (CLO) at the course level. Defining CLOs that align with specific PLOs is quite challenging. Therefore, in our study, we conducted an analysis of the alignment of PLO and CLO based on a text similarity approach. We modeled the PLO and CLO texts using tf-idf and fastText representations, with cosine similarity as the similarity measurement. We evaluated the PLO and CLO from the computer science program at a university in Indonesia. The experimental results show that the fastText representation performs better in identifying the alignment between PLO and CLO.

Keywords: PLO-CLO alignment, PLO,CLO, tf-idf, fasttext, cosine similarity