DESIGN AND DEVELOPMENT OF SECTION
RECOMMENDER MODULE ON OPEN JOURNAL
SYSTEM (OJS)

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ABSTRACT

In 2012, the Sepuluh Nopember Institute of Technology
Surabaya (ITS) created an e-journal site for scientific paper
publication which made by students. The site named POMITS
utilizing Open Journal System (OJS) for its management
system. In OJS, authors have privilege to choose section
(category) in accordance with the articles that will be
registered. This option is often less fit the description of the
relevant section.

This final project makes a module of OJS for recommending
an appropriate category of an article that will be registered by
author. To get the right category of an article, the module will
calculate the neighborhood of that article to other articles in
several categories based on tf-idf value of that article. This
module uses k-Nearest Neighbor algorithm to classify articles.

The functionality test shows that this application runs well
with different scenarios. Then the result of testing the accuracy
of the classification methods that used in this module shows a
percentage of 71.84% with a value of k by 10.

Keywords : Classification, Journal, k-Nearest Neighbor,
Scientific Paper