Abstract

Internet growth rapidly over the last decade and make the population explosion of the Internet users and site activity. Information scattered in the various corners of the internet world. Information retrieval by utilizing internet technology has enormous benefits for the various fields. User activity in accessing the pages of a website can become an information that can be used to become a feedback to help another users find information widely. This study uses the science of web usage mining science to do url cluster based on user search activities in accessing baa.ittelkom.ac.id website, Telkom University's information website. User activity that recorded on a web server log data is processed by using Self-Organizing Map method. To maximize the performance of the Self-Organizing Map method, Dimension reduction processes by K-Mean method must be performed to the results of the transaction data from the data log preprocess. Data log is processed by taking multiple pieces of data that required such as IP address, url, and user access time to the preprocessing's process. Then, the formed clusters will be analyzed.

Keywords : *Self Organizing Map(SOM), K-Means, transactions*, *data log, web usage mining*, *clustering, access pattern.*