
Penelitian dan Pengembangan Data Mining Algorithms Collection

Staff : Yova Ruldeviyani and Yudho Giri Sucahyo
Students : -
Sponsors : RUUI 2007
Email contact : yova@cs.ui.ac.id, yudho@cs.ui.ac.id

Nowadays, user is faced with situations where they have a lot of data but lack of information. Information overloading forces the user to acquire additional device in order to gain accurate and logical information faster. The overwhelming numbers of information need to be processed further to become knowledge. This knowledge can be beneficial for crucial decision making. The data mining technique is one of the solutions that can be used to overcome that problem.

Data mining is a technique to gain hidden knowledge in the data. Few methods have been made to fulfill the needs of user. Famous methods in the data mining are clustering, association rule, and classification. For each method mentioned before, many scientists have proposed various algorithms, which are oftenly specified for certain domain only. So, we need a workbench which contains the collection of data mining algorithms.

In this research and development of data mining algorithms collection, we created a data mining workbench as a result. The Workbench that has been developed consists of 8 algorithms (K-Means, Fuzzy CMeans, Nearest Neighbourhood, Apriori, FP-Growth, CT-Pro, CMAR, and CSFP) which are divided into 3 different methods. The Workbench called FIKUI Mining is developed with C++ programming language which has a faster performance than Java programming language.

The result of this research and development is a form of contribution from University of Indonesia for the scientists in data mining area for the process of selection and comparing between algorithms.