

Abstract

At each airline, flight scheduling certainly been planned long ago. However, there are disorders that occur every day even every time, so it must make changes in real time flight schedule or the so-called real time scheduling is done by FOO (Flight Operation Officer). The task of a FOO is make a schedule crew, tracking crew, arranging transport crew, radio navigation, create a flight plan, fill the load sheet and read maps, meteorological, briefing pilots before take off to monitor the current aircraft in the air, as well as a decision maker or decision makers while -when emergency. Every decision made is determined at a relatively quick period of time and the decision is final, ie can not be changed after it was decided and the influence of other factors. So here needed a solution that provides recommendations to quickly form any disorder that most affect the schedule change. So that action can be taken quickly what should be done by FOO. The data used to determine the cause of the delay in this study is the flight data that flows continuously. Completion method using preprocessing and algorithms Kaal process which is an algorithm for mining the data stream so that the stream of existing rules which will be processed by the algorithm, and will issue a recommendation factor and the performance of the algorithm used Kaal. And testing is done with the training and testing models as well as the performance of the test aloritma. From the testing that has been done to show the accuracy of 91.19% for the test model where the model established valid. The performance of this algorithm is very fast because it can process 23 923 records / sec and memory to be used efficiently so that the algorithm is very suitable for this case.

Keyword : flight scheduling, real time scheduling, data stream, stream mining, rule.