

# Applying Data Mining Technique to Suggest the Material Management Policy in A Logistic Service Department

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## ABSTRACT

The weapon system of a country's military sets up is becoming more accurate and complicated, the accurate weapon equipment must keep in a well arranged and highly serviceable condition , In order to keep the weapon system can be run in an serviceable operation for long period, the source of material must not break off, if the material which not be systematized ,analyzed and managed, just put them into the system of the bill of material(BOM), It will cause a lot of difficulties while we carry out the task of repair and maintaining. Normally, the important equipment system will accumulate a large number of the routine operation records and the records of repair and maintaining. If these materials can be analyzed and utilized properly through the data mining tools, it can prevent the stocks loss for improper storage of raw material. The practical problems on material managing which named X1 and X2 and X3....once they can ' t find out the objects which can be satisfied the statistic analysis to set up the Y for stipulation, how can we through the professional experts or by interview the one who has abundant experience on material managing to get the efficient suggestions that hinding in the data base. This research is based on data warehouse; using data mining technique, with the method " IF Then " to lead out the related rules and set up the proposal or suggestion for the manager who knows when is the proper time for material storage. Besides keeping materials in good repair and fully using material in weapon system. It can also save much time for material storage and preparing. Thus, it will promote the whole fighting capacity of the military.

Keywords : Data Mining ; Inventory Management ; Classification ; Clustering ; Association Rule

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