

Research Title :   Decision Support System for Selection the Mobile Internet Package  
                                  Using Decision Tree

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### **Abstract**

The objective of this research was to develop a decision support system for selection the mobile internet package using decision tree and suggest mobile internet package from the behavior of the users. Two algorithm decision tree; ID3 and C4.5 (J48), were applied to build the best model of classification to classify the mobile internet package. The developed system is web-base application using ASP.NET with C# language and SQL Server 2008 as the database management system and using Weka 3.6.2 to verify the accuracy of the mode. The result showed that algorithm decision tree ID3 built the best model with the highest percentage of correctly classified instances rate was 92.3 (tested the model with Training Data 1000 instances). When this model was used to predict the testing data 500 instances, it was found that the percentage of correctly classified instances rate was 92.2 and the average accuracy percentage from confusion matrix was 83.06. The result was appreciated and this model can be applied to develop a decision support system for Selection the mobile internet package.

Key words : Data Mining, Decision Tree