

C122485 : MAJOR STATISTICS

KEY WORD : DECISION SUPPORT SYSTEM/STATISTICAL METHOD/CORRELATION/
REGRESSION ANALYSIS

CHONTHICHA SRINAKA : A DECISION SUPPORT SYSTEM FOR STATISTICAL
METHOD SELECTION FOR CORRELATION AND REGRESSION ANALYSIS.

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The objective of this thesis is to develop a decision support system for statistical method selection in accordance with researcher or user's need. The users are classified into two groups.

Group I. Users having the research problem and objectives whos need to select types of statistical analysis. The system will guide the users to make decision about types of statistical analysis and then use the decision support system for statistical method selection.

Group II. Users who already know the types of statistical analysis but need to know the statistical method. The system will guide that which have decision support system for statistical method selection.

Both user groups can use decision support system for statistical method selection. This thesis is a decision support system for statistical method selection for correlation and regression analysis in the case of one dependent variable and steps in estimation of regression coefficients. The system is developed to guide the users into the statistical selection method appropriate with users's objective and characteristic of data.

Besides guiding the statistical method, the system also presents details of each statistical method as well as examples. In addition, this system will help users, not collected data, to select types of statistical analysis or statistical method. For users, already know the types of statistical analysis or statistical method, will confirm their decision by this system.

This system was developed using TURBO PASCAL version 5.5 and must be used only on microcomputer with monochrome monitor.