DEVELOPMENT OF COMPUTER ADAPTIVE TESTING FOR MEASURING SPEED AND ACCURACY ON UNDERSTANDING ENGLISH TEXT

Name : YASFIN FAJRI  
NRP : 5105 100 074  
Department : Teknik Informatika FTIf - ITS  
Supervisor I : Prof. Dr. Ir. Joko Lianto Buliali, M.Sc  
Supervisor II : Dr. Kartika Nuswantara, M.Pd

Abstract

Speed and accuracy on understanding reading material is a skill that can help on process of learning, not only in English Language, but also on other subjects. Faster and better someone on understanding reading material, he can increase his efficiency on time and effort in learning process.

This application is a Computer Adaptive Testing that can be used as an aids on training process of . Using Criterion Reference Test and Sequential Probability Ratio, this application can estimate how accurate a user on understanding reading materials and how much time is needed, then classify the user to the available groups.

Using this application, the test can be commissioned flexibly in relatively short time with more accurate result than using conventional method.

Keyword: Speed and Accurate Reading, Computer Adaptive Testing, Criterion Reference Test, Sequential Probability Ratio Test