ABSTRACT

Intelligent Tutoring System (ITS) is a dynamic learning technology which can customize the content or output of the program in accordance with the needs of the target object using its expertise in teaching methods and materials being taught. It happen because ITS is equipped by the Artificial Intelligence (AI), and Bayesian Network is AI method which is used in this final project. Bayesian Network provides a probabilistic approach to obtain an inference or conclusion about the characteristics of each user of the ITS program. So the program can adjust the level of next ITS exam in accordance with each cognitive ability of user. In the simulation ITS program base on Bayesian Network method is known that the reliability of the program is 52.3%.

Key words: ITS, Bayesian Network, Inference