INTEGRATED HUMAN ERROR GAME SIMULATION DESIGN TOWARD LIGHT, TEMPERATURE, AND NOISE LEVEL

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ABSTRACT

Human error is a human failure of performing task which has been designed in the limit of accuracy, process, and time. The cause of human error can be classified into two causes, namely physical working environment and human psychological condition. This research focuses on observation toward human error which is caused by working environment factor. Method which is used to examine the cause of human error is by using human error simulation software. The characteristic of this software is the level of noise, temperature, and light have not been integrated yet. Therefore, problems which will be studied in this research is to design human error simulation game which is integrated toward the level light, temperature, and noise. The integration among level of light, temperature, and noise in human error simulation game is compiled by using controller. This game, in the end, will be used to analyze the cause of human error and create a better tool in human error research.

Keywords: Human Error, Working Environment, Integration, Human Error Simulation Software, Human Error Simulation Game, Controller.