

# USE OF ARTIFICIAL INTELLIGENCE FOR PSYCHOLOGY BY DETERMINING COLOR USAGE IN ART

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## ABSTRACT

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This project conducts a research on the concept of psychology and colors. In psychology, use of color in arts is a way for determining the behavior or character of a person. It explains how this theory can be implemented in the Color Psychology System. This system is a Decision Support System based application. It assists the psychologist to read the colors in drawing more accurately. By doing this, the psychologist can give suggestions on how to improve or maintain the patient's behavior. The literature review was done to support the implementation and design of this system based on the theory in color psychology. The software application of this project is a Color Psychology System. System that will determine the colors used by scanning or reading every pixel of the drawing while extracting only the eight colors needed in the program. As the result, it will identifying the number of occurrences of the eight colors and return the value to the user. The description of the patient's behavior is based on the most colour used and the least colour used in their drawing then the system will provides some suggestions based on their behavior's description. The descriptions and the suggestions are stored in the knowledgebase of this application. To achieve the artificial intelligence feature, the rule base algorithms are developed in order to provide the description and the suggestions to the user.