ABSTRACT

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Web Application for Color Identification in Image Pixels Using the K-Nearest Neighbor Algorithm. Scientific Paper. Department of Information Systems. Faculty of Computer Science and Information Technology. Gunadarma University. 2022

(xiv + 77 + Attachment)

Humans have limitations in accurately detecting hundreds of colors in an image. Many individuals, when classifying a color on an object, only know the basic or common colors. Therefore, a web application named Dysco was developed to facilitate precise color classification. Dysco is a web-based color detection application that utilizes the K-Nearest Neighbors method. This application is built using the Python programming language and the Flask framework. The system can display color information of pixel objects uploaded to the website. With this application, it is hoped to assist individuals in easily detecting specific colors. The application is the result of scientific research that includes training in artificial intelligence. Not only did the author gain insights into AI, but they also learned soft skills, which were applied in the development of this application. The author had the opportunity to create an artificial intelligence-based application under the guidance of Dr. Ety Sutanty, Skom., MMSI, as the supervising lecturer.

References (2012 – 2022)