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Role of Artificial Intelligent Text-to-Image Tools in Design Education

Abstract – Unlike belief and knowledge, intelligence is not information: it is a process, or an innate capacity to use information in order to respond to ever-changing requirements. By assiduous practice one can become more skilled. By diligent study and careful observation one can become more knowledgeable. But creating machine intelligence, however poses challenges of an altogether different order. Similarly, developing algorithm and designing model to train the Artificial Intelligent software for generating concepts constantly requires attention to feed the software with appropriate data, although giving less assurance of predictive and accurate results. The assistance given by these tools is used by many designers across the world to explore the creativity of these software models. This paper aims to study and explore the rate of desired idea/concept generation with the help of Artificial Intelligence based computer software and understand its role in conventional design education. The study will use relative comparison between the produced results and the expected ones as a parameter to investigate the efficiency of artificial intelligence based tools. Design professionals and students that employ artificial intelligence based software for developing concepts to speed up the concept generation process in their design process will be considered for qualitative research stage.

Keywords: Artificial Intelligence, Creativity, Designer, Education, Algorithm