

Research on building a JPEG image compression program

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Abstract: This is a Capstone Project focused on researching and implementing a program to optimize the JPEG image compression process. The practical context shows a high demand for storing and transmitting digital images, which poses a significant challenge regarding the efficiency of image compression. The objective of the project is to design and build an efficient JPEG image compression system based on modern algorithms. The research methodology includes both the theory of image compression and experimentation with specific algorithms. The project hopes to contribute to improving quality and reducing JPEG file size, while also expanding understanding of image processing technology.

Keywords: JPEG compression, Archiving program, Image compression algorithm