

Research on LSB image steganography technique and development of a demo program

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Abstract: This topic focuses on researching the image steganography technique (LSB) - an important method for protecting digital information. The context of the topic is based on the practical need for data security over networks and applications in multimedia communication. The objective of the research is to develop and optimize the LSB algorithm, while building a demo program to test and apply the results. The approach includes both theory and experimentation, from analyzing LSB technology to implementing open-source code. The topic aims to contribute to the development of the digital steganography field while providing practical application solutions.

Keywords: Image steganography, LSB, demo program, information security, multimedia