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## *Design and implementation of video stenography system using robust decomposition approach*

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## **Abstract:**

Stenography is the art by virtue of which one can hide the very existence of an existing communication. Different stenographic methods are used based on suitable types of requirements. In this project, we propose a video stenography methodology using singular value decomposition (SVD) and discrete wavelet transform (DWT). SVD and DWT enhance the quality and performance of video stenography. Results have been taken over the data sets of an embedded standard secret image in a standard video stream. The final results have been plotted and compared between peak signal to noise ratio (PSNR) with embedding strength and mean square error (MSE) with embedding strength. Experimental results indicate that the proposed stenography method based on SVD and DWT provides high level of imperceptibility, robustness against many existing methods.

## **Keywords:**

Video Stenography, Singular Value Decomposition, Discrete Wavelet Transform, Embedding Strength