Video Steganography using Convolutional Neural Network and Temporal Residual Method

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Authors:
Fariha Aiman, G. R. Manjula

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Abstract

Steganography involves data hiding in computer files. Steganographic coding, include a file including the document, image, program as well as guidelines, can be included in electronic communication in a transport layer. Because of their large size media files are suitable for the steganography transmission. This paper focuses on video steganography. Video steganography is nothing but hiding the complete secret video within the cover video. Firstly the residual of the secret video and cover video is obtained because hiding the residual video is much easier when compared to hiding original video. This model uses the deep convolutional neural network method. The model compares the particular model with other method. And all results show that this method is efficient.

References

1. Xinyu Weng1,2, Yongzhi Li1,2, Lu Chi1, Yadong Mu1,2 Convolutional Video Steganography with Temporal Residual Modeling 1Institute of Computer Science & Technology
2Big Data Scientific Research Center Peking University, China.
13Comparison of Video Steganography Methods for Watermark Embedding David Griberman1, Pavel Rusakov Department of Applied Computer Science, Riga Technical University, Latvia 2016/19.

Index Terms

Computer Science
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Keywords

Video steganography, Data hiding, deep neural network, residual modeling