

^cDepartment of Electrical and Computer Engineering, Kulliyah of Engineering International Islamic University Malaysia, Jalan Gombak, Kuala Lumpur, 53100, Malaysia

Nowadays, due to security concern, not all the process of sending files via email runs smoothly. There are several types of file extensions that are blocked when sent via email. For examples, there are several file extensions blocked by Gmail. This paper discusses steganographic implementation using End of File (EOF) algorithm to insert special file into image cover file with JPG and PNG format so that files with these extensions can be sent via email. Before a special extension file is inserted into the cover file, a compression process should be conducted first to make the file size smaller. The proposed algorithm is implemented on Visual Basic.Net software. Based on the tests performed, the application can insert Gmail-blocked file system to the image cover file, without changing the physical bit of the image cover file or file system that inserted with 100% success rate. The stego-image file is also successfully sent via email without being blocked. © 2018 Institute of Advanced Engineering and Science. All rights reserved.

End of file Gmail Image cover file Insertion Steganography

Publisher: Institute of Advanced Engineering and Science

[View at Publisher](#)

Set citation feed >

View all related documents based on references

- 2 Gunawan, T.S., Lim, M.K., Zulkurnain, N.F., Kartiwi, M.
On the review and setup of security audit using Kali Linux

(2018) *Indonesian Journal of Electrical Engineering and Computer Science*, 11 (1), pp. 51-59. Cited 2 times.
<http://www.iaescore.com/journals/index.php/IJEECS/article/download/12645/8634>
doi: 10.11591/ijeecs.v11.i1.pp51-59

View at Publisher
-
- 3 Kour, J., Verma, D.
Steganography Techniques –A Review Paper
(2014) *International Journal of Emerging Research in Management & Technology*, 3, pp. 132-135. Cited 13 times.
-
- 4 Kaur, M., Sharma, V.K.
Encryption based LSB Steganography Technique for Digital Images and Text Data
(2016) *IJCSNS International Journal of Computer Science and Network Security*, 16, pp. 90-97. Cited 2 times.
-
- 5 Ramkumar, M., Akansu, A.N.
Capacity estimates for data hiding in compressed images

(2001) *IEEE Transactions on Image Processing*, 10 (8), pp. 1252-1263. Cited 50 times.
doi: 10.1109/83.935040

View at Publisher
-
- 6 Mstafa, R.J., Elleithy, K.M., Abdelfattah, E.
A Robust and Secure Video Steganography Method in DWT-DCT Domains Based on Multiple Object Tracking and ECC

(2017) *IEEE Access*, 5, art. no. 7893733, pp. 5354-5365. Cited 4 times.
<http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=6287639>
doi: 10.1109/ACCESS.2017.2691581

View at Publisher
-
- 7 Khodaei, M., Faez, K.
New adaptive steganographic method using least-significant-bit substitution and pixel-value differencing

(2012) *IET Image Processing*, 6 (6), pp. 677-686. Cited 38 times.
doi: 10.1049/iet-ipr.2011.0059

View at Publisher
-
- 8 Tiwari, A., Yadav, S.R., Mittal, N.K.
A Review on Different Image Steganography Techniques
(2014) *International Journal of Engineering and Innovative Technology (IJEIT)*, 3, pp. 121-124. Cited 2 times.
-
- 9 Rakhigawande, S.
A Review on Steganography Methods
(2013) *International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering*, 2, pp. 4635-4638. Cited 6 times.
-

Find more related documents in
Scopus based on:

Authors > Keywords >