Enhancing Open Space Method in Data Hiding Technique

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Abstract

This research studies a methodology for hide data within different texts. That is where the data masking process is one of the areas of information security to hide and encrypt data and other branches that represent information security. The process of hiding data within the text are completely different from the rest of methods of concealment, it will be through a change in the empty spaces in the text or change the text itself or change in some of the properties other than text and empty spaces. These changes are a way by which to hide data within the text. This research proposes an enhancement of white space method for hiding data, which is processed by changing the secret text through extracting the indexes of the characters from the cover text or ASCII code, then converting these numbers from the decimal numeral system into the octal numeral system in order to use the number 8 and 9 as indicators against the remaining numbers. Then, merge these outcomes with the white spaces between the words in the cover text by changing the font size of these numbers to 1pt, and changing the font color to match background color of the cover text.
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Index Terms

Computer Science

Security
Keywords

steganography, host signal, signal encoder, white space, syntactic, semantic, Microsoft Word, UniSpaCh, justified format, secret text, and cover text.