

Method of Selective Steganographic Data Hiding Based on Graphic Containers

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Abstract	Abstract: An approach to the construction of a selective algorithm for steganographic information hiding based on graphic type containers is proposed. Unlike to most of existing approaches, proposed algorithm takes into account the container fragments content features. So, in the source container, initially performs search for a transformants set suitable for modification. In the next step, within each such identified transformants, a components set that are potentially acceptable for direct modification determines. At the same time, the search parameters for both the transformants set and the components can be modified using the stego key parameters. Encapsulating the secret message bits procedure considered. In this case used an approach based on indirect encapsulation, during which the component decimal value changes. Based on the fact that the algorithm does not make changes to the container that are characteristic of most known steganographic methods, and also due to the fact that the number of encapsulated bits within the container is insignificant, the proposed approach is potentially resistant to stegoanalysis methods.
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