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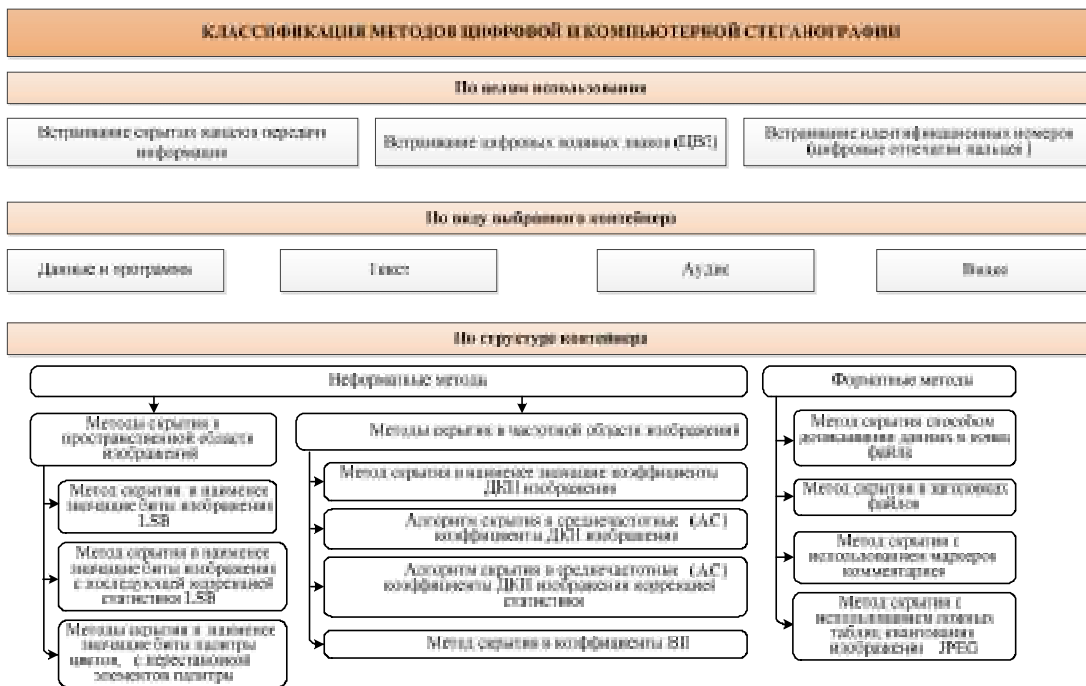
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Классификация методов организации скрытых каналов в выделенных	Правило построения	Пропускная способность скрытого канала $C$	Скрытность $U$	Достоверность скрытых данных $p$	Число скрытых каналов
<b>1. Направление цифровой стеганографии – встраивание цифровых водяных знаков (ЦВЗ) с целью подтверждения данных</b>					
<b>2. Направление цифровой стеганографии – организация скрытого канала с целью сокрытия факта передачи</b>					
Наименее известного вида К.Ю. Давыдов, В.М. Корзин С.М. Мельник, В.С. Давыдов, С.А. Козлов, Док. Фридрих	$\dots^1 = I + S$	$C^1 = \max$	$U^1 = \min$	$p = 10^{-3}$	1
Псевдослучайного интервала (Д.Равкулин, Док.Семоск, В.Волыновский)	$\dots^2 = I + S   I_h = 1$	$C^2 < C^1$	$U^2 > U^1$	$p = 10^{-3}$	1
Псевдослучайными переставками В.И. Корзин, С.Мельник, А.Филиппов, И.Стириш	$\dots^3 = I + S   h = \{i, i-\}$	$C^3 < C^2$	$U^3 > U^2$	$p = 10^{-3}$	1
Безопасного скрывает (В.О.Хорошко, С.П.А.Ирбе, К.Ю. Давыдов, В.М.Корзин)	$\dots^4 = \left(\frac{I}{D}\right) + S, D-$	$C^4 \approx C^3$	$U^4 > U^3$	$p = 10^{-3}$	1
Наименее известного вида В.Г.Грибулин, К.Ю.Давыдов, В.М.Корзин	$\dots^5 = I + S$	$C^5 = \max$	$U^5 > U^1$	$p = 10^{-3}$	1
Относительной замены В.И. Корзин, Е.Воск, Док. Жил.	$\dots^6 = \begin{cases} S_0, \left(\frac{I}{D}\right)_1 - \left(\frac{I}{D}\right)_2 > P \\ S_1, \left(\frac{I}{D}\right)_1 - \left(\frac{I}{D}\right)_2 < P \end{cases}, P-$	$C^6 < C^4$	$U^6 \approx U^4$	$p = 10^{-3}$	1
Бенгама-Меммона (Д.Бенгама, И.Меммона, В-П Эд, М. Кинг)	$\dots^7 = \begin{cases} S_0, \left\{ \begin{aligned} \left(\frac{I}{D}\right)_3 < \left(\frac{I}{D}\right)_1 \\ \left(\frac{I}{D}\right)_3 < \left(\frac{I}{D}\right)_2 \end{aligned} \right. \\ S_1, \left\{ \begin{aligned} \left(\frac{I}{D}\right)_3 > \left(\frac{I}{D}\right)_1 \\ \left(\frac{I}{D}\right)_3 > \left(\frac{I}{D}\right)_2 \end{aligned} \right. \end{cases}$	$C^7 < C^6$	$U^7 > U^6$	$p = 10^{-3}$	1
Фридрих Е.А.Небева, Док. Фридрих	$\dots^8 = (I) + S   (I) < (I) + 10^2 r, I', r-$	$C^8 < C^7$	$U^8 \approx U^7$	$p = 10^{-3}$	1
Расширения спектра К.Ю.Давыдов, А.Е.Корзин, В.М.Корзин	$\dots^{10} = (I) + S \cdot \{i, i-\}$	$C^8 < C^{10} < C^1$	$U^{10} \approx U^9$	$p = 10^{-3}$	1
Статистический (И.Патис, В.О.Хорошко, В.Г.Грибулин, М.Е.Шевел)	$\dots^9 = \left[ (I)_1 \right]^{\frac{E}{2}} \cup \left[ (I)_2 \right]^{\frac{E}{2}}$ $E-$	$C^9 < C^8$	$U^9 > U^8$	$p = 10^{-3}$	1

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## Digital Steganography: Status and Development Outlook

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**Problem statement:** digital steganography is a relatively young branch of knowledge, the development of which is counted since the 90-ies of the last century. Despite this digital steganography is of great interest to specialists studying the issues of information security, engineers of information security tools and experts in the field of information theory and digital signal processing. Publications on techniques and methods of digital steganography, over the last five years are characterized by development of mathematical models of multimedia containers, use signals with spread spectrum, error-correcting codes, the involvement of elements of new mathematical tools. **Objective:** to summarize and clarify the main concepts and definitions of digital steganography, to clarify and systematize the classification of its policies and practices to the prospective studies in this area. **Result:** presents the basic concepts and definitions of digital steganography, the questions unsettled terminology in this area. It identifies basic publication in the field of digital steganography, given a refined classification of its policies and methods. There are the main directions of prospective research in this area and work done in certain areas in this article.

**Keywords:** steganography, hidden channels, digital watermarking, fractal wideband signals, pseudorandom sequences, genetic algorithms, cellular automata, management of hidden bandwidth, multi-channel stegosystem.

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