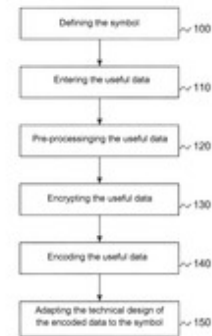




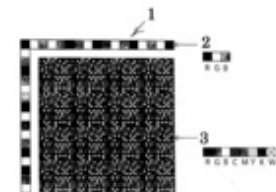
6.	Encoding/decoding of information from a graphical information unit	EP3023916	2016-05-25	GESELLSCHAFT ZUR FOERDERUNG ANGEWANDTER INFORMATIK & V FÖRDERUNG ANGEWANDTER INFORMATIK E V GES GES ZUR FÖRDERUNG ANGEWANDTER INFORMATIK E V GESELLSCHAFT ZUR FORDERUNG ANGEWANDTER INFORMATIKE V
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Systems and methods for encoding information in a graphic information unit. The methods comprise: determining an outer contour of the graphic information unit; and encoding information with an at least two-dimensional code in at least one area located solely within the outer contour. The encoding is applied to image elements of the graphic information unit.
(From US9832471 B2)



7.	Information code	WO2009/144794	2009-12-03	COLOUR CODE TECHNOLOGIES COLOR CODE TECHNOLOGIES COLOR CODE TECHNOLOGY GMG COLOR TECHNOLOGIES
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An information code consists of a cutout code made of a code system easy to cut out a code region by analysis of color component from image data including the code region and a data recording code capable of recording target electronic data with high recording density. The information code is characterized by that decoding the cutout data enables the data recording code to be cut out and decoded by mathematical calculation not depending only on the analysis of the color component, thereby improving the recording density of the data recording code by an increase in the number of colors and reduction of cells. The information code includes two code standards of the cutout code and the data recording code. The cutout data is made in a code system easy to cut out by the analysis of the color component since it serves as an initial key for cutting out the code from an image, and decoding the cutout data allows acquisition of information necessary for extraction and composition of the data recording code.

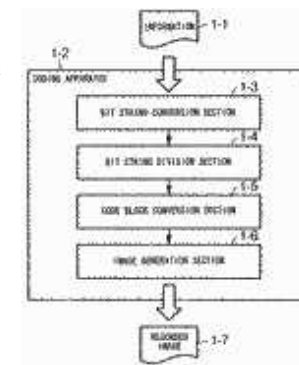


8. [Information coding device, information decoding device, and method thereof, and program](#) EP1612722

2006-01-04

NIPPON TELEGRAPH & TELEPHONE

An information coding apparatus, an information decoding apparatus, and a method and a program therefor are provided, which can represent a large amount of information with a small number of pixels. Information bits which are inputted are coded as a block of a two-dimensional image made up from m (where m is a natural number) $\times$ n (where n is a natural number) pixels. Specifically, pixels which represent the information bits are arranged in a code area, which is an area of $(m - o) \times (n - p)$ pixels within a code block of $m \times n$ pixels (where o and p are natural numbers which satisfy $0 < o < m$ and $0 < p < n$); and, no pixels which represent the information bits are arranged in a guide area, which is an area of the other pixels within the code block of $m \times n$ pixels.

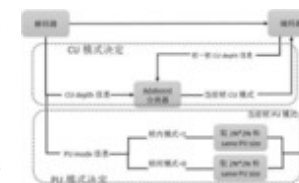


9. [Video transcoding method based on hevc standard](#) CN107734331

2018-02-23

NANJING UNIVERSITY OF SCIENCE & TECHNOLOGY

The invention provides a video transcoding method based on an HEVC standard. The video transcoding method comprises the following specific steps of decoding an original video stream, extracting decoded original video stream coding unit information and prediction unit mode information, and recording a quantization step of the original video stream; re-coding the decoded video stream, setting a re-coding quantization step, simultaneously extracting coding unit information of the previous frame of a to-be-coded frame and coding unit information of the coded 1 to N-1 frames, and obtaining coding unit information of a current coding frame according to the decoded original video stream coding unit information and the coding unit information of the previous frame of the to-be-coded frame; determining a final prediction unit mode according to the decoded prediction unit mode information; and determining a coding unit information partitioning mode of the current coding frame according to the depth information category of the coding unit information of the current coding frame. According to the video transcoding method based on the HEVC standard, the calculation complexity of a CU mode and aPU mode is greatly reduced.



10. [Method of coding information in the form of bar codes, a method of reading the latter and devices implementing these methods.](#) EP0667592

1995-08-16

CANON

CANON RESEARCH CENTRE FRANCE

The coding method consists, after representing each item of information by an m -bit word, of expressing this word in code, representing each bit by a bar with a first or second reflection factor of unit width, according to whether the bit is equal to "0" or "1", the juxtaposition of two or more bits of the same binary value being represented by a single bar of a width greater than the unit width and an actual multiple of $2 < n >$ times the unit width, n being equal to the number of juxtaposed bits. A reading method consists, in an initial cycle, of determining the unit width of the bars with each of the factors by measuring the time elapsed during scanning, with an optical reader, between two successive factor transitions for a series of bars of identical width and equal to a predetermined multiple of the unit width; storing this width, storing the corresponding logic state; and updating the unit width in the course of the measurement of the width of each bar in the series. This method may also include an iterative cycle consisting, after the measurement of the width of the last two bars in the said series, of comparing the width equivalent to the scanning time for the subsequent bar with the same factor as the bar which enabled the unit width to be determined with predetermined threshold multiples of the unit width. Devices implementing these methods are also provided.



Fig.1

11. [Increasing information size in two-dimensional barcodes](#) EP3066613

2016-09-14

SICPA

Decoding or encoding information in a two-dimensional barcode, the barcode comprising an orientation pattern and a payload data pattern both being compiled of first and second type elements. The decoding or encoding involves a two-dimensional transformation applying at least to the payload data pattern in connection with second information that forms together with first information the information encoded in the two-dimensional barcode.

