DATA HIDING METHOD AND DATA EXTRACTING METHOD

ABSTRACT

In order to hide message information (m) into media information (M), the frequency transform of the message information (m) and the media information (M) are performed, and frequency spectra f_1 and f_2 are obtained. Next, from the frequency spectrum f_2 of the message information (m), a region containing feature frequency components representative of the features of the message information (m) in real space is extracted as the base region B. Then, n copies of the base region B are generated, and in frequency space, the n copies are dispersedly arranged. Also, by making the frequency components other than that equal to zero, a frequency spectrum f_3 is generated as intermediate information. Finally, the frequency spectrum f_3 and the frequency spectrum f_1 are added, and by performing the inverse frequency transform of the result, the message information (m) can be hidden into the media information (M).

Fig. 3