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Abstract

Techniques for embedding and detection of watermarks in images

A plurality of digital data objects obeying a similarity criterion are analysed
5 together by an independent component analysis to derive a transform matrix
W encoding properties shared between the digital data objects. One or more
digital data objects of the group are encoded using this transform matrix **W**,
and a watermark is embedded into the encoded data. The inverse of the
transform matrix is applied to obtain watermarked data. The presence of the
10 watermark is found by applying the transform matrix again, and examining the
result for the presence of the watermark. The invention is particularly suitable
for digital data objects which are respective images.

[Fig. 3]