

Title (en)

METHOD FOR ENCODING A DIGITAL IMAGE AND ASSOCIATED DECODING METHOD, DEVICES AND COMPUTER PROGRAMS

Title (de)

VERFAHREN ZUR CODIERUNG EINES DIGITALEN BILDES UND ZUGEHÖRIGES DECODIERUNGSVERFAHREN, VORRICHTUNGEN UND COMPUTERPROGRAMME

Title (fr)

PROCEDE DE CODAGE D'UNE IMAGE NUMERIQUE, PROCEDE DE DECODAGE, DISPOSITIFS, ET PROGRAMMES D'ORDINATEURS ASSOCIES

Publication

EP 3254467 A1 20171213 (FR)

Application

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Priority

- FR 1550984 A 20150206
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Abstract (en)

[origin: WO2016124867A1] The invention concerns a method for encoding a digital image, said image (Ik) being divided into a plurality of blocks of pixels processed in a defined order, said method comprising the following steps, implemented for a current block (x), of predefined dimensions:
- Transforming (T2) the current block into a transformed block, said block comprising coefficients, said step implementing two successive transformation sub-steps, the first sub-step being applied to the current block, the second to the intermediate block, from the first sub-step, said intermediate block comprising coefficients, and - Quantifying (T4) and encoding (T5) the coefficients of the transformed block, characterised in that
- said transformation step further comprises, prior to at least one of said transformation sub-steps, said sub-step being applied to a block, referred to as the block to be transformed, from the current block and the intermediate block, a preliminary sub-step (T20, T23) of forming at least one first and one second distinct vectors in the block to be transformed, a said vector comprising the pixels and, respectively, the coefficients of a sequence of adjacent pixels, or adjacent coefficients of the block to be transformed, of a length equal to one of the dimensions of the block to be transformed; and - said at least one transformation sub-step comprises the application of a first transform (LO, CO) to said at least one first vector and of at least one second transform (LI, CI), different from the first, to said at least one second vector of said block.

IPC 8 full level

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Citation (search report)

See references of WO 2016124867A1

Cited by

CN111937386A; US11889080B2

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