

Title (en)
PARTIAL DECODING OF COMPRESSED VIDEO SEQUENCES

Title (de)
PARTIELLES DEKODIEREN VON KOMPRIMIERTEN VIDEOSEQUENZEN

Title (fr)
DECODAGE PARTIEL DE SEQUENCES VIDEO COMPRIMEES

Publication
EP 1048174 A4 20040407 (EN)

Application
EP 98964199 A 19981222

Priority

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- US 10574698 A 19980626

Abstract (en)
[origin: WO9933275A1] Compressed video sequences generated using a (e.g., DCT) transform are partially decoded (202) to recover (204) the low-frequency transform coefficients (e.g., only the DC coefficients) from the encoded bitstream. The low-frequency coefficients are then used to generate blocks of image data that are subjected to motion-compensated inter-frame addition (206) to generate partially decoded images that can be used for subsequent processing, such as histogram analysis (208) for video parsing. The present invention avoids having to perform the computationally expensive inverse transform operations, while still achieving satisfactory results.

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H04N 5/14; **H04N 7/50**; **H04N 7/46**

IPC 8 full level
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Citation (search report)

- [X] US 5262854 A 19931116 - NG SHEAU-BAO [US]
- [XY] VETRO A ET AL: "Frequency domain down-conversion of HDTV using adaptive motion compensation", IMAGE PROCESSING, 1997. PROCEEDINGS., INTERNATIONAL CONFERENCE ON SANTA BARBARA, CA, USA 26-29 OCT. 1997, LOS ALAMITOS, CA, USA,IEEE COMPUT. SOC, US, 26 October 1997 (1997-10-26), pages 763 - 766, XP010254068, ISBN: 0-8186-8183-7
- [Y] YEO B-L ET AL: "RAPID SCENE ANALYSIS ON COMPRESSED VIDEO", IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY, IEEE INC. NEW YORK, US, vol. 5, no. 6, 1 December 1995 (1995-12-01), pages 533 - 544, XP000545960, ISSN: 1051-8215
- See references of WO 9933275A1

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