

Title (en)

CONTEXT BASED VIDEO ENCODING AND DECODING

Title (de)

KONTEXTBASIERTE VIDEOCODIERUNG UND -DECODIERUNG

Title (fr)

ENCODAGE ET DÉCODAGE VIDÉO BASÉS SUR LE CONTEXTE

Publication

EP 2815572 A2 20141224 (EN)

Application

EP 13710636 A 20130207

Priority

- US 201261615795 P 20120326
- US 201261707650 P 20120928
- US 201213725940 A 20121221
- US 2013025123 W 20130207

Abstract (en)

[origin: WO2013148002A2] A model-based compression codec applies higher-level modeling to produce better predictions than can be found through conventional block-based motion estimation and compensation. Computer-vision-based feature and object detection algorithms identify regions of interest throughout the video datacube. The detected features and objects are modeled with a compact set of parameters, and similar feature/object instances are associated across frames. Associated features/objects are formed into tracks and related to specific blocks of video data to be encoded. The tracking information is used to produce model-based predictions for those blocks of data, enabling more efficient navigation of the prediction search space than is typically achievable through conventional motion estimation methods. A hybrid framework enables modeling of data at multiple fidelities and selects the appropriate level of modeling for each portion of video data.

IPC 1-7

H04N 7/26; H04N 7/36

CPC (source: EP)

H04N 19/23 (2014.11); **H04N 19/51** (2014.11); **H04N 19/85** (2014.11)

Citation (search report)

See references of WO 2013148002A2

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

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DOCDB simple family (application)

US 2013025123 W 20130207; CA 2868448 A 20130207; EP 13710636 A 20130207; JP 2015503204 A 20130207; TW 102107461 A 20130304