

Title (en)
TECHNIQUES TO PERFORM VIDEO STABILIZATION AND DETECT VIDEO SHOT BOUNDARIES BASED ON COMMON PROCESSING ELEMENTS

Title (de)
VERFAHREN FÜR VIDEOSTABILISIERUNG UND ERKENNUNG VON VIDEOAUFNAHMEGRENZEN AUF DER BASIS VON GEMEINEN VERARBEITUNGSELEMENTEN

Title (fr)
TECHNIQUES D'EXÉCUTION DE STABILISATION VIDÉO ET DE DÉTECTION DE LIMITES DE SCÈNES VIDÉO EN FONCTION D'ÉLÉMENTS DE TRAITEMENT COMMUNS

Publication
EP 2465254 A4 20150909 (EN)

Application
EP 09848153 A 20090812

Priority
CN 2009000920 W 20090812

Abstract (en)
[origin: WO2011017823A1] An apparatus, a system and a method for performing video stabilization and detecting video shot boundaries are disclosed. The method includes: receiving a current frame of a video; down-scaling the current frame; storing the down-scaled current frame into a portion of a buffer; determining the sum of the absolute differences between the blocks in a down-scaled reference frame and a target block in the down-scaled current frame; determining the inter-frame dominant motion parameters of the down-scaled current frame; and performing at least one of the video stabilization and the shot boundary detection based in part on at least one of the motion parameters and the sum of the absolute differences.

IPC 8 full level
H04N 5/14 (2006.01); **H04N 5/232** (2006.01)

CPC (source: EP KR)
H04N 5/145 (2013.01 - EP KR); **H04N 5/147** (2013.01 - EP KR); **H04N 23/68** (2023.01 - EP); **H04N 23/682** (2023.01 - EP); **G06T 2207/10016** (2013.01 - KR)

Citation (search report)

- [X] US 2008170125 A1 20080717 - YANG SHIH-HSUAN [TW], et al
- [A] WO 2008057841 A1 20080515 - INTEL CORP [US], et al
- [A] EP 0649256 A2 19950419 - CANON KK [JP]
- [A] XUDONG SONG ET AL: "New Fast Binary Pyramid Motion Estimation for MPEG2 and HDTV Encoding", IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY, IEEE SERVICE CENTER, PISCATAWAY, NJ, US, vol. 10, no. 7, 1 October 2000 (2000-10-01), XP011014125, ISSN: 1051-8215
- [A] TING CHEN: "Video Stabilization Algorithm Using a Block-Based Parametric Motion Model, EE392J Project Report", 31 December 2000 (2000-12-31), XP055205166, Retrieved from the Internet <URL:http://twiki.cis.rit.edu/twiki/pub/Main/HongqinZhang/chen_report.pdf> [retrieved on 20150729]
- See references of WO 2011017823A1

Cited by
CN103310451A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
WO 2011017823 A1 20110217; CN 102474568 A 20120523; CN 102474568 B 20150729; EP 2465254 A1 20120620; EP 2465254 A4 20150909; JP 2013502101 A 20130117; JP 5435518 B2 20140305; KR 101445009 B1 20140926; KR 20120032560 A 20120405

DOCDB simple family (application)
CN 2009000920 W 20090812; CN 200980160949 A 20090812; EP 09848153 A 20090812; JP 2012524073 A 20090812; KR 20127003602 A 20090812