

Title (en)

METHOD AND SYSTEM FOR ENCODING/DECODING MULTI-VIEW VIDEO BASED ON LAYERED-DEPTH IMAGE

Title (de)

VERFAHREN UND SYSTEM ZUR MEHRFACHANSICHTS-VIDEOKODIERUNG/-DEKODIERUNG AUF BASIS VON LAYERED-DEPTH-IMAGE

Title (fr)

PROCEDE ET SYSTEME DE CODAGE/DECODAGE DE VIDEO MULTIVUE BASES SUR UNE IMAGE A PROFONDEUR STRATIFIEE

Publication

EP 1800493 A4 20121010 (EN)

Application

EP 05809005 A 20051013

Priority

- KR 2005003418 W 20051013
- KR 20040082927 A 20041016
- KR 20050031715 A 20050416

Abstract (en)

[origin: WO2006041261A1] Provided are a method and an apparatus for encoding/decoding a multi-view video using LDI. Specifically, provided are a method and an apparatus for encoding/decoding a multi-view video using LDI, which uses a linear decorrelation process to improve compression efficiency. The LDI encoding method according to present invention includes: (i) generating the LDI including multiple layers by using color and depth information of each viewpoint image of the multi-view video; (ii) performing linear decorrelation in each layer of the LDI; (iii) performing data aggregation in each linearly-decorrelated layer of the LDI; and (iv) encoding the aggregated data in each layer of the LDI to generate an encoded LDI bit stream.

IPC 8 full level

G06T 15/20 (2011.01); **H04N 7/26** (2006.01); **H04N 7/32** (2006.01); **H04N 13/00** (2006.01)

CPC (source: EP KR)

G06T 15/205 (2013.01 - EP); **H04N 13/00** (2013.01 - KR); **H04N 13/128** (2018.04 - EP); **H04N 19/50** (2014.11 - EP); **H04N 19/597** (2014.11 - EP KR); **H04N 19/85** (2014.11 - EP); **H04N 2213/005** (2013.01 - EP)

Citation (search report)

- [X] YOUNG SUNG-YEOL KIM DAEHEE KIM SUKHEE CHO KUGJIN YUN CHUNGHYUN AHN SOOIN LEE: "Coding of Layered Depth Image using Coherency between Point Samples", 70. MPEG MEETING; 18-10-2004 - 22-10-2004; PALMA DE MALLORCA; (MOTIONPICTURE EXPERT GROUP OR ISO/IEC JTC1/SC29/WG11),, no. M11279, 12 October 2004 (2004-10-12), XP030040053, ISSN: 0000-0253
- [L] ISO/IEC JTC 1/SC 29/WG 11: "Table of the the Registered Contributions to the MPEG Meeting #70, Palma, ES", 8 May 2005 (2005-05-08), XP002682316, Retrieved from the Internet <URL:http://mpeg.nist.gov/reg/_list70.php> [retrieved on 20050508]
- [A] YOUNG SUNG-YEOL KIM DAEHEE KIM SUKHEE CHO KUGJIN YUN CHUNGHYUN AHN SOOIN LEE: "Multi-view Video Coding using Layered Depth Image", 70. MPEG MEETING; 18-10-2004 - 22-10-2004; PALMA DE MALLORCA; (MOTIONPICTURE EXPERT GROUP OR ISO/IEC JTC1/SC29/WG11),, no. M11278, 12 October 2004 (2004-10-12), XP030040052, ISSN: 0000-0253
- [A] "Description of Exploration Experiments in 3DAV", 62. MPEG MEETING; 21-10-2002 - 25-10-2002; SHANGHAI; (MOTION PICTURE EXPERT GROUP OR ISO/IEC JTC1/SC29/WG11),, no. N5169, 25 October 2002 (2002-10-25), XP030012488, ISSN: 0000-0362
- See references of WO 2006041261A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2006041261 A1 20060420; EP 1800493 A1 20070627; EP 1800493 A4 20121010; KR 100714068 B1 20070502; KR 20060053268 A 20060519

DOCDB simple family (application)

KR 2005003418 W 20051013; EP 05809005 A 20051013; KR 20050096700 A 20051013