

Title (en)
METHOD OF ESTIMATING DISPARITY VECTOR, AND METHOD AND APPARATUS FOR ENCODING AND DECODING MULTI-VIEW MOVING PICTURE USING THE DISPARITY VECTOR ESTIMATION METHOD

Title (de)
VERFAHREN ZUR SCHÄTZUNG EINES DISPARITÄTSVEKTORS SOWIE VERFAHREN UND VORRICHTUNG ZUR KODIERUNG UND DEKODIERUNG EINES BEWEGLICHEN BILDES MIT MEHRFACHANSICHT UNTER VERWENDUNG DES DISPARITÄTSVEKTORSCHÄTZVERFAHRENS

Title (fr)
PROCEDE D'ESTIMATION DE VECTEUR DE DISPARITE, ET PROCEDE ET DISPOSITIF POUR LE CODAGE ET LE DECODAGE D'IMAGE EN MOUVEMENT MULTIVISION SUR LA BASE DU PROCEDE D'ESTIMATION

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Application
EP 06798854 A 20060922

Priority
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Abstract (en)
[origin: WO2007035054A1] A method and apparatus are provided for encoding and decoding a multi-view moving picture. A method of estimating a disparity vector to encode a multi-view moving picture includes: estimating disparity vectors for a predetermined number of encoded macroblocks; and calculating disparity vectors of macroblocks adjacent to the encoded macroblocks using the estimated disparity vectors. Therefore, it is possible to quickly perform encoding of a multi-view moving picture and enhance compressibility of the multi-view moving picture.

IPC 8 full level
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CPC (source: EP)
H04N 13/161 (2018.04); **H04N 19/103** (2014.11); **H04N 19/146** (2014.11); **H04N 19/154** (2014.11); **H04N 19/176** (2014.11); **H04N 19/513** (2014.11); **H04N 19/53** (2014.11); **H04N 19/597** (2014.11); **H04N 19/70** (2014.11); **H04N 21/21805** (2013.01); **H04N 21/2365** (2013.01); **H04N 21/2383** (2013.01); **H04N 21/2662** (2013.01); **H04N 21/4347** (2013.01); **H04N 21/8146** (2013.01)

Citation (search report)
• [YA] US 2004057515 A1 20040325 - KOTO SHINICHIRO [JP], et al
• [XY] KIM Y ET AL: "Efficient disparity vector coding for multiview sequences", SIGNAL PROCESSING. IMAGE COMMUNICATION, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 19, no. 6, 1 July 2004 (2004-07-01), pages 539 - 553, XP004517248, ISSN: 0923-5965, DOI: 10.1016/J.IMAGE.2004.04.004
• [A] FAOUZI KOSENTINI ET AL: "Predictive RD Optimized Motion Estimation for Very Low Bit-Rate Video Coding", IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, IEEE SERVICE CENTER, PISCATAWAY, US, vol. 15, no. 9, 1 December 1997 (1997-12-01), XP011054728, ISSN: 0733-8716
• [A] LI S ET AL: "Direct Mode Coding for Bipredictive Slices in the H.264 Standard", IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY, IEEE SERVICE CENTER, PISCATAWAY, NJ, US, vol. 15, no. 1, 1 January 2005 (2005-01-01), pages 119 - 126, XP011124673, ISSN: 1051-8215, DOI: 10.1109/TCSVT.2004.837021
• [A] YANG W ET AL: "Joint Motion and Disparity Fields Estimation for Stereoscopic Video Sequences", SIGNAL PROCESSING. IMAGE COMMUNICATION, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 20, no. 3, 1 March 2005 (2005-03-01), pages 265 - 276, XP025323855, ISSN: 0923-5965, [retrieved on 20050301], DOI: 10.1016/J.IMAGE.2004.12.003
• See references of WO 2007035054A1

Citation (examination)
• US 5812199 A 19980922 - LU JIAN [US], et al
• IZQUIERDO E: "Computational experiments with area-based stereo for image-based rendering", 3D DATA PROCESSING VISUALIZATION AND TRANSMISSION, 2002. PROCEEDINGS. FIRST INTERNATIONAL SYMPOSIUM ON JUNE 19-21, 2002, PISCATAWAY, NJ, USA, IEEE, LOS ALAMITOS, CA, USA, 19 June 2002 (2002-06-19), pages 168 - 171, XP010596652, ISBN: 978-0-7695-1521-2

Cited by
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DOCDB simple family (application)
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