

Title (en)
METHOD FOR ESTIMATING MOTION USING DEFORMABLE MESHES

Title (de)
VERFAHREN ZUR BEWEGUNGSSCHÄTZUNG MITHILFE VON VERFORMBAREN NETZEN

Title (fr)
PROCEDE D'ESTIMATION DE MOUVEMENT A L'AIDE DE MAILLAGES DEFORMABLES

Publication
EP 1790169 A1 20070530 (FR)

Application
EP 05805589 A 20050906

Priority
• FR 2005002216 W 20050906
• FR 0409778 A 20040915

Abstract (en)
[origin: WO2006030103A1] The invention concerns a method which consists in analyzing a field of motion of images, estimated by using a first mesh, to detect a faulty area in the first mesh, and in locating a rupture line in said area; then generating a second mesh including a faultless part consisting of meshes of the first mesh outside the faulty area and two sub-meshes which overlap in a region including the rupture line. Each of the two sub-meshes includes respective meshes delimited by nodes including nodes shared with the faultless part, located at the boundary of the faulty area, and additional nodes not belonging to the faultless part, the rupture line being located between the respective nodes of the two sub-meshes shared with the faultless part. Said second mesh is used to finally estimate the field of motion in the group of images concerned.

IPC 8 full level
H04N 7/26 (2006.01); **G06T 15/40** (2006.01)

CPC (source: EP US)
G06T 7/215 (2016.12 - EP US); **G06T 7/246** (2016.12 - EP US); **G06T 17/20** (2013.01 - EP US); **H04N 19/53** (2014.11 - EP US);
H04N 19/54 (2014.11 - EP US); **H04N 19/553** (2014.11 - EP US)

Citation (search report)
See references of WO 2006030103A1

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 2006030103 A1 20060323; **WO 2006030103 A8 20070503**; CN 101036390 A 20070912; CN 101036390 B 20100616;
EP 1790169 A1 20070530; JP 2008514073 A 20080501; JP 4870081 B2 20120208; US 2007291845 A1 20071220; US 8761250 B2 20140624

DOCDB simple family (application)
FR 2005002216 W 20050906; CN 200580031076 A 20050906; EP 05805589 A 20050906; JP 2007531790 A 20050906;
US 66275605 A 20050906