

Title (en)

GLOBAL AND DENSE MOVEMENT ESTIMATION

Title (de)

SCHÄTZUNG DER ALLGEMEINEN UND DER DICHTEBEWEGUNG

Title (fr)

ESTIMATION DE MOUVEMENT GLOBAL ET DENSE

Publication

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Application

EP 11704249 A 20110104

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Abstract (en)

[origin: WO2011080495A1] The invention relates to a method which uses a series of images sensed by an image sensor including at least one preceding image and one following image to estimate movement. A first estimated movement is initially obtained (101) by estimating the total movement from the preceding image to the following image. Next, an image compensated according to the first estimated movement is obtained (102) from either one of the preceding and following images. Then, a second estimated movement (U, V, N) is obtained (103) by estimating dense movement between the compensated image and the other from the preceding and following images. Next, a residual value of global movement (r) is determined (104). Finally, if (105) the residual value is lower than a threshold value (S) the second estimated movement (U, V, N) is provided; otherwise, the preceding steps are repeated. The first estimated movement is determined by applying a binary image mask, and if during step /e/ the steps /a/ to /e/ are repeated, said steps are performed by applying a binary image mask updated according to the second estimated movement.

IPC 8 full level

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CPC (source: EP US)

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