Title (en)

METHOD AND DEVICE FOR ANALYZING VIDEO SIGNALS GENERATED BY A MOVING CAMERA

Title (de)

VERFAHREN UND EINRICHTUNG ZUM ANALYSIEREN VON DURCH EINE SICH BEWEGENDE KAMERA ERZEUGTEN VIDEOSIGNALEN

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR ANALYSER DES SIGNAUX VIDÉO PRODUITS PAR UNE CAMÉRA MOBILE

Publication

EP 2289045 A1 20110302 (EN)

Application

EP 08754025 A 20080516

Priority

SG 2008000188 W 20080516

Abstract (en)

[origin: WO2009139723A1] A method is provided for detecting moving objects in a video signal generated by a moving camera. A first plurality of pixels is selected from a first frame and a second plurality of pixels comprised in that first plurality, is identified in a preceding frame. Based upon the second plurality of pixels, changes occurred in pixels belonging to the first plurality of pixels are identified, and a shifting intensity value of pixels for which changes have been identified, is calculated. Then, a vector which is associated with the pixels' locations and calculated shifting intensity value is generated, and a connected component which comprises a group of pixels comprised in the second plurality of pixels, is identified. The group is characterized in that a change in each of its pixels is associated with a change in each of the remaining pixels of that group, and that pixels comprised in the group have a distinctive shifting intensity value, indicating a movement of the connected component which is associated with the moving object, relative to background shifting caused by the camera movement.

IPC 8 full level

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See references of WO 2009139723A1

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