

Title (en)

IMAGE PROCESSING APPARATUS WITH CALIBRATION MODULE, METHOD FOR CALIBRATION AND COMPUTER PROGRAM

Title (de)

BILDVERARBEITUNGSVORRICHTUNG MIT KALIBRIERUNGSMODUL, VERFAHREN ZUR KALIBRIERUNG SOWIE COMPUTERPROGRAMM

Title (fr)

DISPOSITIF DE TRAITEMENT D IMAGE AVEC MODULE D ÉTALONNAGE, PROCÉDÉ D ÉTALONNAGE ET PROGRAMME D ORDINATEUR

Publication

EP 2300961 A1 20110330 (DE)

Application

EP 08874527 A 20081114

Priority

- EP 2008065529 W 20081114
- DE 102008002275 A 20080606

Abstract (en)

[origin: WO2009146756A1] With the aim of relieving the load on monitoring personnel and improving the monitoring quality, image processing methods have been proposed which automatically evaluate the recorded video data using digital image processing. Customary methods involve moving monitored objects being isolated from the essentially static scene background, tracked over time and an alarm being triggered in the event of relevant movements. However, the video data first of all show only a two-dimensional representation of the monitoring areas. Tracking the monitored object over time - also called trajectory - without further evaluation thus provides no inference of the actual trajectory of the monitored object in the monitoring area. An image processing apparatus 13 for a video monitoring system for monitoring a monitoring area 1, which may have at least one monitored object 2 and at least one concealment geometry 3, with a detection module 15 which is designed to detect one of the monitored objects 2 is proposed, wherein the monitored object 2 is detected on the basis of a set of subarea detectors 7a-e which detect different subareas of the monitored object 2, and wherein detection of the monitored object 2 prompts the set of subarea detectors 7a-e to be divided into a positive set 8 of subarea detectors which have identified the associated subarea of the monitored object 2 and into a negative set 9 of subarea detectors which have not identified the associated subarea of the monitored object 2, with a calibration module 16, 17 which is designed to calibrate a depth map and/or a concealment geometry for the monitoring area 1 on the basis of a detected monitoring object 2 with a negative quantity 8.

IPC 8 full level

G06V 10/22 (2022.01)

CPC (source: EP US)

G06V 10/22 (2022.01 - EP US); **G06V 20/52** (2022.01 - EP US); **G06V 2201/12** (2022.01 - EP)

Citation (search report)

See references of WO 2009146756A1

Citation (examination)

VINAY D SHET ET AL: "Bilattice-based Logical Reasoning for Human Detection", CVPR '07. IEEE CONFERENCE ON COMPUTER VISION AND PATTERN RECOGNITION; 18-23 JUNE 2007; MINNEAPOLIS, MN, USA, IEEE, PISCATAWAY, NJ, USA, 1 June 2007 (2007-06-01), pages 1 - 8, XP031114390, ISBN: 978-1-4244-1179-5

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

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