

Title (en)

METHODS AND SYSTEMS FOR DETECTING AND RECOGNIZING OBJECTS IN A CONTROLLED WIDE AREA

Title (de)

VERFAHREN UND SYSTEME ZUR DETEKTION UND ERKENNUNG VON OBJEKTEN IN EINEM KONTROLLIERTEN WEITEN RAUM

Title (fr)

PROCEDES ET SYSTEMES PERMETTANT DE DETECTER ET DE RECONNAITRE DES OBJETS DANS UNE ZONE ETENDUE CONTROLEE

Publication

EP 1509872 A1 20050302 (EN)

Application

EP 03731317 A 20030522

Priority

- US 0316126 W 20030522
- US 38321602 P 20020522
- US 40440703 A 20030331
- US 40541203 A 20030401

Abstract (en)

[origin: WO03100710A1] Methods and systems are described herein for high-speed observation and recognition of objects or persons within a controlled area using 3D image data and tomography, stereo-photogrammetry, range finding and/or structured illumination. A wide area security system may comprise multiple pairs of 3D sensors surrounding a controlled area. Using at least two pairs of 3D sensors and a first 3D data collection technique such as tomography, a zone of interest within the controlled area is detected. Using at least one pair of 3D sensors and a second 3D data collection technique such as structured illumination, more 3D image data related to an object of interest is collected. The 3D image data may be compared to data representing known objects and used to identify an object of interest. Methods for fast processing of 3D data and recognition of objects of interest are also described.

IPC 1-7

G06K 9/00

IPC 8 full level

G06K 9/00 (2006.01)

CPC (source: EP)

G06V 20/64 (2022.01)

Citation (search report)

See references of WO 03100710A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 03100710 A1 20031204; AU 2003241571 A1 20031212; EP 1509872 A1 20050302

DOCDB simple family (application)

US 0316126 W 20030522; AU 2003241571 A 20030522; EP 03731317 A 20030522