

Title (en)

SYSTEM AND METHOD FOR AUTOMATED SUSPICIOUS OBJECT BOUNDARY DETERMINATION

Title (de)

SYSTEM UND VERFAHREN ZUR AUTOMATISIERTEN BESTIMMUNG DES UMRISSES EINES VERDÄCHTIGEN OBJEKTS

Title (fr)

SYSTEME ET PROCEDE POUR LA DETERMINATION AUTOMATISEE DE LIMITE D'OBJET SUSPECT

Publication

**EP 1774469 A1 20070418 (EN)**

Application

**EP 05772337 A 20050721**

Priority

- IB 2005052445 W 20050721
- US 59107504 P 20040726

Abstract (en)

[origin: WO2006013514A1] A system and method is provided for automated suspicious object boundary determination using a machine learning system (300) and genetic algorithms. The machine learning system (300) is trained (204) and tested (205) using sets of pre-categorized examples. Genetic algorithms assign initial parameter values (201), evaluate the system's performance (206) during testing and assign a performance rating (207), whereupon if the rating is acceptable, the current machine learning system's settings are assigned as default parameters (209) for future suspicious object segmentation. However, if the performance rating is unacceptable, the genetic algorithms adjust the settings (210) and retrain the system using the newly adjusted settings.

IPC 8 full level

**G06T 5/00** (2006.01)

CPC (source: EP)

**G06T 7/11** (2016.12); **G06T 7/143** (2016.12); **G06T 2207/10088** (2013.01); **G06T 2207/10116** (2013.01); **G06T 2207/10132** (2013.01); **G06T 2207/20081** (2013.01); **G06T 2207/30068** (2013.01); **G06T 2207/30096** (2013.01)

Citation (search report)

See references of WO 2006013514A1

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 2006013514 A1 20060209**; CN 1989524 A 20070627; EP 1774469 A1 20070418; JP 2008507372 A 20080313

DOCDB simple family (application)

**IB 2005052445 W 20050721**; CN 200580025104 A 20050721; EP 05772337 A 20050721; JP 2007523213 A 20050721