

Title (en)

METHOD AND SYSTEM FOR OBJECT RECOGNITION VIA A COMPUTER VISION APPLICATION

Title (de)

VERFAHREN UND SYSTEM ZUR OBJEKTERKENNUNG ÜBER EINE ANWENDUNG FÜR COMPUTERVISION

Title (fr)

PROCÉDÉ ET SYSTÈME DE RECONNAISSANCE D'OBJETS PAR L'INTERMÉDIAIRE D'UNE APPLICATION DE VISION ARTIFICIELLE

Publication

EP 3931750 A1 20220105 (EN)

Application

EP 20705374 A 20200221

Priority

- EP 19160383 A 20190301
- US 201916289706 A 20190301
- EP 2020054693 W 20200221

Abstract (en)

[origin: WO2020178052A1] The invention refers to a method and a system for object recognition via a computer vision application, the system (100) comprising at least the following components: - an object (130) to be recognized, the object having an object specific luminescence spectral pattern, - a light source (110) which is composed of at least two illuminants (111, 112, 113, 114, 115) and configured to illuminate a scene including the object to be recognized by switching between the two illuminants, - a sensor (120) which is configured to capture radiance data of the scene including the object when the scene is illuminated by the light source, - a data storage unit (150) which comprises fluorescence spectral patterns together with appropriately assigned respective objects, - a data processing unit (140) which is configured to extract the object specific fluorescence spectral pattern out of the radiance data of the scene and to match the extracted object specific fluorescence spectral pattern with the fluorescence spectral patterns stored in the data storage unit, and to identify a best matching fluorescence spectral pattern and, thus, its assigned object.

IPC 8 full level

G01N 21/55 (2014.01); **G01N 21/64** (2006.01); **G06V 10/143** (2022.01)

CPC (source: EP KR US)

G01N 21/25 (2013.01 - EP KR); **G01N 21/64** (2013.01 - EP KR US); **G06V 10/143** (2022.01 - EP KR US); **G01N 2021/6421** (2013.01 - EP KR); **G06F 2218/12** (2023.01 - EP KR)

Designated contracting state (EPC)

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2020178052 A1 20200910; AU 2020230852 A1 20210729; BR 112021013986 A2 20210921; CA 3125937 A1 20200910; CN 113474791 A 20211001; EP 3931750 A1 20220105; JP 2022522822 A 20220420; KR 20210127951 A 20211025; MX 2021010582 A 20211117; SG 11202107525Q A 20210830; TW 202103107 A 20210116

DOCDB simple family (application)

EP 2020054693 W 20200221; AU 2020230852 A 20200221; BR 112021013986 A 20200221; CA 3125937 A 20200221; CN 202080015337 A 20200221; EP 20705374 A 20200221; JP 2021551955 A 20200221; KR 20217027517 A 20200221; MX 2021010582 A 20200221; SG 11202107525Q A 20200221; TW 109106497 A 20200227