

Title (en)

SINGLE-PROCESSOR COMPUTER VISION HARDWARE CONTROL AND APPLICATION EXECUTION

Title (de)

HARDWARESTEUERUNG FÜR COMPUTERVISION MIT EINZELPROZESSOR UND ANWENDUNGS-AUSFÜHRUNG

Title (fr)

EXÉCUTION D'APPLICATION ET COMMANDE DE MATÉRIEL DE VISION ARTIFICIELLE AVEC PROCESSEUR UNIQUE

Publication

EP 3571626 A1 20191127 (EN)

Application

EP 18703870 A 20180112

Priority

- US 201715413390 A 20170123
- US 2018013501 W 20180112

Abstract (en)

[origin: WO2018136325A1] Apparatuses, methods, and systems are presented for reacting to scene-based occurrences. Such an apparatus may comprise dedicated computer vision (CV) computation hardware configured to receive sensor data from a sensor array comprising a plurality of sensor pixels and capable of computing one or more CV features using readings from neighboring sensor pixels of the sensor array. The apparatus may further comprise a first processing unit configured to control operation of the dedicated CV computation hardware. The first processing unit may be further configured to execute one or more application programs and, in conjunction with execution of the one or more application programs, communicate with at least one input/output (I/O) device controller, to effectuate an I/O operation in reaction to an event generated based on operations performed on the one or more computed CV features.

IPC 8 full level

G06V 10/36 (2022.01); **G06V 10/50** (2022.01)

CPC (source: EP KR US)

G06V 10/36 (2022.01 - EP KR US); **G06V 10/50** (2022.01 - EP KR US); **G06V 10/955** (2022.01 - EP KR US); **G06V 20/44** (2022.01 - KR); **G06V 40/107** (2022.01 - EP KR US); **G06V 40/16** (2022.01 - EP KR US); **G06V 20/44** (2022.01 - EP US)

Citation (examination)

US 7941698 B1 20110510 - AGGARWAL NIDHI [US], et al

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 2018136325 A1 20180726; AU 2018210818 A1 20190627; AU 2018210818 B2 20220428; BR 112019014550 A2 20200218; CN 110178142 A 20190827; CN 110178142 B 20230606; EP 3571626 A1 20191127; EP 4307242 A1 20240117; KR 102611372 B1 20231206; KR 20190110545 A 20190930; SG 11201904976W A 20190827; TW 201832111 A 20180901; TW I763769 B 20220511

DOCDB simple family (application)

US 2018013501 W 20180112; AU 2018210818 A 20180112; BR 112019014550 A 20180112; CN 201880006914 A 20180112; EP 18703870 A 20180112; EP 23178995 A 20180112; KR 20197021357 A 20180112; SG 11201904976W A 20180112; TW 107102165 A 20180122