

Title (en)

MACHINE LEARNING FOR HOME UNDERSTANDING AND NOTIFICATION

Title (de)

MASCHINENLERNEN FÜR HAUSHALTSVERSTÄNDNIS UND -BENACHRICHTIGUNG

Title (fr)

APPRENTISSAGE AUTOMATIQUE DESTINÉ À UNE COMPRÉHENSION ET UNE NOTIFICATION DOMESTIQUES

Publication

EP 3794504 A4 20210804 (EN)

Application

EP 19803820 A 20190520

Priority

- US 201862673548 P 20180518
- US 201862673523 P 20180518
- US 201862673498 P 20180518
- US 2019033058 W 20190520

Abstract (en)

[origin: WO2019222725A1] Methods, systems, and apparatus, including computer programs encoded on a computer storage medium, for machine learning for home understanding and notification. In one aspect, a method includes obtaining reference videos from a camera within a premises of a home, determining, from the reference videos, timing of actions in a routine that a particular person performs before leaving the home, determining from a sample video from the camera within the home that the particular person appears to be out of sync in performing a particular action based on the timing of actions in the routine determined from the reference videos, and in response, providing a notification to the particular person.

IPC 8 full level

G06K 9/20 (2006.01); **G06K 9/00** (2006.01); **G06K 9/62** (2006.01); **G06K 9/64** (2006.01); **G06K 9/78** (2006.01); **G06Q 10/06** (2012.01); **H04L 12/28** (2006.01)

CPC (source: EP US)

G06Q 10/063116 (2013.01 - EP US); **G06Q 10/06316** (2013.01 - EP); **H04L 12/2829** (2013.01 - EP); **G06F 18/23213** (2023.01 - EP); **G06F 18/24143** (2023.01 - EP); **G06V 20/52** (2022.01 - EP US); **G06V 40/172** (2022.01 - EP US); **G06V 40/20** (2022.01 - EP US)

Citation (search report)

- [I] US 9942056 B2 20180410 - LIN RONGBIN LANNY [US], et al
- [A] SHIAN-RU KE ET AL: "A Review on Video-Based Human Activity Recognition", COMPUTERS, vol. 2, no. 2, 5 June 2013 (2013-06-05), pages 88 - 131, XP055490051, DOI: 10.3390/computers2020088
- [A] BABIKER MOHANAD ET AL: "Automated daily human activity recognition for video surveillance using neural network", 2017 IEEE 4TH INTERNATIONAL CONFERENCE ON SMART INSTRUMENTATION, MEASUREMENT AND APPLICATION (ICSIMA), IEEE, 28 November 2017 (2017-11-28), pages 1 - 5, XP033328957, DOI: 10.1109/ICSIMA.2017.8312024
- See references of WO 2019222725A1

Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (application)

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