

Title (en)

RADAR DATA COLLECTION AND LABELING FOR MACHINE-LEARNING

Title (de)

RADAR DATENERFASSUNG UND -MARKIERUNG FÜR MASCHINENLERNEN

Title (fr)

COLLECTE ET ÉTIQUETAGE DE DONNÉES RADAR DESTINÉS À UN APPRENTISSAGE AUTOMATIQUE

Publication

**EP 3938806 A1 20220119 (EN)**

Application

**EP 19918774 A 20190311**

Priority

US 2019021672 W 20190311

Abstract (en)

[origin: WO2020185209A1] Systems and methods for labeling radar tracks for machine learning are disclosed. According to some aspects, a machine accesses data from radar unit(s), the data from the radar unit(s) comprising radar tracks, each radar track comprising one or more of the following: Doppler and micro-Doppler measurement(s), range measurement(s), and angle measurement(s). The machine accesses data from computer vision device(s), the data from the computer vision device(s) comprising image(s), the data from the computer vision device(s) being associated with a common geographic region and a common time period with the data from the radar unit(s). The machine labels, using an image recognition module, objects in the image(s). The machine determines, based on the common geographic region and the common time period, that labeled object(s) in the image(s) map to radar track(s). The machine labels the radar track(s) based on labels of the labeled objects.

IPC 8 full level

**G01S 13/50** (2006.01); **G01S 13/89** (2006.01); **G06N 20/00** (2019.01)

CPC (source: EP)

**G01S 7/417** (2013.01); **G01S 13/42** (2013.01); **G01S 13/582** (2013.01); **G01S 13/584** (2013.01); **G01S 13/867** (2013.01); **G06N 3/084** (2013.01); **G06N 3/044** (2023.01); **G06N 3/045** (2023.01); **G06N 3/126** (2013.01)

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 2020185209 A1 20200917**; EP 3938806 A1 20220119; EP 3938806 A4 20221026

DOCDB simple family (application)

**US 2019021672 W 20190311**; EP 19918774 A 20190311