

Title (en)

METHOD AND MEANS OF CAD SYSTEM PERSONALIZATION TO PROVIDE A CONFIDENCE LEVEL INDICATOR FOR CAD SYSTEM RECOMMENDATIONS

Title (de)

VERFAHREN UND MITTEL ZUR PERSONALISIERUNG EINES CAD-SYSTEMS ZUR BEREITSTELLUNG EINES KONFIDENZNIVEAU-INDIKATORS FÜR CAD-SYSTEMEMPFEHLUNGEN

Title (fr)

PROCÉDÉ ET MOYEN DE PERSONNALISATION DE SYSTÈME DE CAD POUR TRANSMETTRE UN INDICATEUR DE NIVEAU DE CONFIANCE POUR DES RECOMMANDATIONS DE SYSTÈME DE CAD

Publication

**EP 3497603 A4 20200408 (EN)**

Application

**EP 17840359 A 20170811**

Priority

- US 201615235050 A 20160811
- US 2017046565 W 20170811

Abstract (en)

[origin: WO2018031919A1] A method and means to utilize machine learning to train a device to generate a confidence level indicator (CLI). The device is a CAD system that has been initially trained using initial machine learning to recommend classifications for image features presented to the device. Probabilistic classification is utilized to incorporate intermediate values given by a human operator to better indicate a level of confidence of the CAD system's recommendations as to what classes should be associated with certain image features.

IPC 8 full level

**G06K 9/62** (2006.01); **A61B 6/00** (2006.01); **A61B 8/08** (2006.01); **A61B 10/00** (2006.01); **G06K 9/03** (2006.01); **G06K 9/46** (2006.01); **G06T 7/00** (2017.01); **G16H 30/40** (2018.01); **G16H 50/70** (2018.01)

CPC (source: EP US)

**G06F 18/214** (2023.01 - EP); **G06F 18/2415** (2023.01 - EP); **G06V 10/987** (2022.01 - EP US); **G16H 30/40** (2018.01 - EP US); **G06V 2201/03** (2022.01 - EP); **G16H 50/70** (2018.01 - EP)

Citation (search report)

- [I] US 2010121178 A1 20100513 - KRISHNAN SRIRAM [US], et al
- [I] MAZUROWSKI MACIEJ ET AL: "Individualized computer-aided education in mammography based on user modeling: Concept and preliminary experiments", MEDICAL PHYSICS, AIP, MELVILLE, NY, US, vol. 37, no. 3, 18 February 2010 (2010-02-18), pages 1152 - 1160, XP012135634, ISSN: 0094-2405, DOI: 10.1118/1.3301575
- See also references of WO 2018031919A1

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

DOCDB simple family (publication)

**WO 2018031919 A1 20180215**; AU 2017308120 A1 20190307; AU 2017308120 B2 20230803; CA 3033441 A1 20180215; CN 109791804 A 20190521; CN 109791804 B 20240301; EP 3497603 A1 20190619; EP 3497603 A4 20200408; JP 2019526869 A 20190919; JP 7021215 B2 20220216

DOCDB simple family (application)

**US 2017046565 W 20170811**; AU 2017308120 A 20170811; CA 3033441 A 20170811; CN 201780059927 A 20170811; EP 17840359 A 20170811; JP 2019529462 A 20170811