

Title (en)
SYSTEMS AND METHODS FOR PRE-PROCESSING ANATOMICAL IMAGES FOR FEEDING INTO A CLASSIFICATION NEURAL NETWORK

Title (de)
SYSTEME UND VERFAHREN ZUR VORVERARBEITUNG ANATOMISCHER BILDER ZUR EINFÜHRUNG IN EIN NEURONALES
KLASSIFIZIERUNGSNETZ

Title (fr)
SYSTÈMES ET PROCÉDÉS DE PRÉTRAITEMENT D'IMAGES ANATOMIQUES POUR INTRODUCTION DANS UN RÉSEAU NEURONAL DE
CLASSIFICATION

Publication
EP 3791310 A4 20220330 (EN)

Application
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Priority
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Abstract (en)
[origin: EP3567525A1] There is provided a method comprising: providing two anatomical images 104 of a target individual, each captured at a unique orientation of the target individual, inputting first and second anatomical images respectively into a first and second convolutional neural network (CNN) of a classifier to respectively output first and second feature vectors, inputting a concatenation of the first and second feature vectors into a fully connected layer of the classifier 110, and computing an indication of distinct visual finding(s) 112 present in the anatomical images by the fully connected layer, wherein the statistical classifier is trained on a training dataset including two anatomical images of each respective sample individual, each image captured at a respective unique orientation of the target individual, and a tag created based on an analysis that maps respective individual sentences of a text based radiology report to one of multiple indications of visual findings.

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CPC (source: EP US)
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Citation (search report)
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• [A] US 2006110021 A1 20060525 - LUO HUI [US], et al
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• [A] YUNCHAO WEI ET AL: "CNN: Single-label to Multi-label", 9 June 2014 (2014-06-09), pages 1 - 14, XP055404290, Retrieved from the Internet <URL:https://arxiv.org/pdf/1406.5726.pdf> [retrieved on 20170906], DOI: 10.1109/TPAMI.2015.2491929
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DOCDB simple family (application)
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