

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/JP2018/044072

**A. CLASSIFICATION OF SUBJECT MATTER**

Int.Cl. G06N20/00 (2019.01) i

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl. G06N3/00-99/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Published examined utility model applications of Japan	1922-1996
Published unexamined utility model applications of Japan	1971-2019
Registered utility model specifications of Japan	1996-2019
Published registered utility model applications of Japan	1994-2019

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y  A	庄野逸ほか, 2段階転移学習を用いたディープコンボリューション ネットの医用画像認識, 日本神経回路学会誌, March 2017, vol. 24, no. 1, pp. 3-12, ISSN 1340-766X, particularly, pp. 6, 7, fig. 2, (SHOUNO, Hayaru et al., Deep convolution neural network with 2-stage transfer learning for medical image classification, The Brain & Neural Networks)	1-2, 8-9, 15- 16 3-7, 10-14, 17-21
Y	daisukelab, 小さなデータセットで良い分類器を学習させると き, Qiita [online], 07 October 2018, [retrieved on 26 December 2018], Internet <URL:https://qiita.com/daisukelab/items/381099590f 22e4f9ab1f>, non-official translation (When training a good classifier with a small data set)	1-2, 8-9, 15- 16

Further documents are listed in the continuation of Box C.       See patent family annex.

* Special categories of cited documents:	“T” later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
“A” document defining the general state of the art which is not considered to be of particular relevance	“X” document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
“E” earlier application or patent but published on or after the international filing date	“Y” document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
“L” document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	“&” document member of the same patent family
“O” document referring to an oral disclosure, use, exhibition or other means	
“P” document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 04.01.2019	Date of mailing of the international search report 22.01.2019
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Name and mailing address of the ISA/ Japan Patent Office 3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Authorized officer  Telephone No.
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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	福井和広ほか, 複数視点画像の分布に基づく手形状認識, 電子情報通信学会技術研究報告, 14 February 2011, vol. 110, no. 422, pp. 23-28, ISSN 0913-5685, (FUKUI, Kazuhiro et al., IEICE Technical Report), non-official translation (Hand shape recognition based on distribution of multiple viewpoint images)	1-21
A	川合諒ほか, 人工生成データの学習による人の重なりに頑強なふらつき歩行認識, 第24回画像センシングシンポジウム論文集, 13 June 2018, IS1-17, (KAWAI, Ryo et al.), non-official translation (Robust fluctuating walking recognition against overlapping of people by learning artificially generated data, Proceedings of the 24th Symposium on Sensing via Image Information)	1-21