



# SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 21 85 67 19

## Classification of the application (IPC):

G06F 21/32, G06N 20/00, G06F 11/00, H04L 9/40, G06N 3/045, G06N 3/08

## Technical fields searched (IPC):

G06F, H04L

## DOCUMENTS CONSIDERED TO BE RELEVANT

| Category | Citation of document with indication, where appropriate, of relevant passages                                                      | Relevant to claim |
|----------|------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| X        | US 2019228248 A1 (HAN JAEJOON [KR] ET AL)<br>25 July 2019 (2019-07-25)<br>* paragraphs [0054], [0069], [0070], [0123]; figure 10 * | 1-15              |
| X        | US 2019130168 A1 (KHITROV ALEXEY [US] ET AL)<br>02 May 2019 (2019-05-02)<br>* paragraphs [0047], [0055], [0089] *                  | 1-15              |
| A        | US 2020014541 A1 (STREIT SCOTT EDWARD [US])<br>09 January 2020 (2020-01-09)<br>* paragraphs [0026] - [0036], [0096] - [0099] *     | 1-15              |

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

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|---------------------------|--------------------------------------------------|---------------------------|
| Place of search<br>Munich | Date of completion of the search<br>29 July 2024 | Examiner<br>Rey, Salvador |
|---------------------------|--------------------------------------------------|---------------------------|

## CATEGORY OF CITED DOCUMENTS

- |                                                                                 |                                                                        |
|---------------------------------------------------------------------------------|------------------------------------------------------------------------|
| X: particularly relevant if taken alone                                         | P: intermediate document                                               |
| Y: particularly relevant if combined with another document of the same category | T: theory or principle underlying the invention                        |
| A: technological background                                                     | E: earlier patent document, but published on, or after the filing date |
| O: non-written disclosure                                                       | D: document cited in the application                                   |
| & : member of the same patent family, corresponding document                    | L: document cited for other reasons                                    |

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# ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 29-07-2024  
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| Patent document cited<br>in search report |    | Publication<br>date | Patent family<br>member(s) |               | Publication<br>date |
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| US 2019130168                             | A1 | 02-05-2019          | NONE                       |               |                     |
| US 2020014541                             | A1 | 09-01-2020          | US                         | 2020014541 A1 | 09-01-2020          |
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