# 

# (11) **EP 4 276 816 A3**

#### (12)

### **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3: 06.03.2024 Bulletin 2024/10

(43) Date of publication A2: 15.11.2023 Bulletin 2023/46

(21) Application number: 23200212.1

(22) Date of filing: 26.11.2019

(51) International Patent Classification (IPC): G10L 15/197 (2013.01)

(52) Cooperative Patent Classification (CPC): G10L 15/197

(84) Designated Contracting States:

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

(30) Priority: 30.11.2018 US 201862773361 P

(62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC: 19821483.5 / 3 867 901

(71) Applicant: Google LLC

Mountain View, CA 94043 (US)

(72) Inventors:

 ALEKSIC, Petar Mountain View, 94043 (US)

 HAYNOR, Benjamin Paul Hillson Mountain View, 94043 (US)

(74) Representative: Lewis, Stefanie Janneke et al Kilburn & Strode LLP Lacon London 84 Theobalds Road London WC1X 8NL (GB)

#### (54) SPEECH PROCESSING

(57) Methods, systems, and apparatus, including computer programs encoded on a computer storage medium, for adapting a language model are disclosed. In one aspect, a method includes the actions of receiving transcriptions of utterances that were received by computing devices operating in a domain and that are in a source language. The actions further include generating translated transcriptions of the transcriptions of the utterances in a target language. The actions further include

receiving a language model for the target language. The actions further include biasing the language model for the target language by increasing the likelihood of the language model selecting terms included in the translated transcriptions. The actions further include generating a transcription of an utterance in the target language using the biased language model and while operating in the domain.



## **DECLARATION**

**Application Number** 

which under Rule 63 of the European Patent Convention EP 23 20 0212 shall be considered, for the purposes of subsequent proceedings, as the European search report

	of the EPC to such an extent that it is no	present application, does not comply with the pro of possible to carry out a meaningful search into	
)	state of the art on the basis of all claims Reason:		INV. G10L15/197
5	application do not requirements of Ar after a clarificat 63(1) EPC the subj	ticle 76(1) EPC. Even ion process under Rule	
)	the parent applica not become clear. meaningful search the claims (Rule 6 For details of the accompanying Europ	tion (EP19821483) has As a consequence no is possible for any of 3(2) EPC).	
;	fact that a search during examination of no search under	tention is drawn to the may be carried out following a declaration Rule 63 EPC, should the	
)	problems which led being issued be ov Guideline C-IV, 7.	•	
5			
)			
;			
EPO FORM 1504 (P04F37)			
0 RM -	Place of search	Date	Examiner
EPO F	Munich	17 January 2024	Geißler, Christian