Title (en)

Method and apparatus using decision trees to generate and score multiple pronunciations for a spelled word

Title (de)

Vorrichtung und Verfahren zur Erzeugung und Bewertung von mehrfachen Ausprachevarianten eines buchstabierten Worts unter Verwendung von Entscheidungsbäumen

Title (fr)

Procédé et dispositif utilisant des arbres de décision pour générer et juger des prononciations multiples

Publication

EP 0953970 A3 20000119 (EN)

Application

EP 99303390 A 19990429

Priority

- US 6776498 A 19980429
- US 6930898 A 19980429
- US 7030098 A 19980430

Abstract (en)

[origin: EP0953970A2] The mixed decision tree includes a network of yes-no questions about adjacent letters in a spelled word sequence and also about adjacent phonemes in the phoneme sequence corresponding to the spelled word sequence. Leaf nodes of the mixed decision tree provide information about which phonetic transcriptions are most probable. Using the mixed trees, scores are developed for each of a plurality of possible pronunciations, and these scores can be used to select the best pronunciation as well as to rank pronunciations in order of probability. The pronunciations generated by the system can be used in speech synthesis and speech recognition applications as well as lexicography applications. <IMAGE>

IPC 1-7

G10L 5/04

IPC 8 full level

G10L 13/04 (2013.01); **G10L 13/08** (2013.01)

CPC (source: EP KR)

G10L 13/04 (2013.01 - KR); **G10L 13/08** (2013.01 - EP)

Citation (search report)

- [A] EP 0562138 A1 19930929 - IBM [US], et al
- [X] ANDERSEN O ET AL: "Comparison of two tree-structured approaches for grapheme-to-phoneme conversion", PROCEEDINGS ICSLP 96. FOURTH INTERNATIONAL CONFERENCE ON SPOKEN LANGUAGE PROCESSING (CAT. NO.96TH8206), PROCEEDING OF FOURTH INTERNATIONAL CONFERENCE ON SPOKEN LANGUAGE PROCESSING. ICSLP '96, PHILADELPHIA, PA, USA, 3-6 OCT. 1996, 1996, New York, NY, USA, IEEE, USA, pages 1700 - 1703 vol.3, XP002123689, ISBN: 0-7803-3555-4

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AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

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