

Title (en)

Method for the computation of phone duration statistics and method for the determination of the duration of single phones for speech synthesis

Title (de)

Verfahren zum Erzeugen einer Statistik von Phondauern und Verfahren zum Ermitteln der Dauer einzelner Phone für die Sprachsynthese

Title (fr)

Procédé pour le calcul des statistiques de durée des phones et procédé pour la détermination de la durée de phones pour la synthèse de la parole

Publication

EP 1170723 B1 20101103 (DE)

Application

EP 01114696 A 20010619

Priority

DE 10033104 A 20000707

Abstract (en)

[origin: US2002016709A1] A statistic for phone lengths is generated by determining the length of individual phones for speech synthesis. A primary statistic is based on primary clusters (for example triphones), and a secondary statistic is based on secondary clusters (for example phonemes of entire words). Both statistics include average phone lengths and, for example, the standard variation of the average phone lengths. During the determination of phone lengths, it is firstly attempted to determine the average phone lengths and standard variation of the average phone lengths by reference to the secondary statistic which is more language-specific. If this is not the case, the primary statistic, which can always be applied, is resorted to. By this two stage method, a phone length is determined which corresponds significantly better to a natural language than has been possible with the conventional single stage method.

IPC 8 full level

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CPC (source: EP US)

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