Title (en)

Method for estimating speech quality

Title (de)

Verfahren zur Schätzung der Sprachqualität

Title (fr)

Procédé d'évaluation de la qualité vocale

Publication

**EP 2388779 B1 20130220 (EN)**

Application

**EP 10005327 A 20100521**

Priority

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Abstract (en)

[origin: EP2388779A1] The invention relates to a method for estimating speech quality, wherein a reference speech signal (101) with a reference speech spectrum (X) enters a telecommunication network resulting in a test speech signal (102) with a test speech spectrum (Y), the method comprising the steps of identifying a number of perceptually dominant frequency sub-bands (bi) in one of the reference speech spectrum (X) and the test speech spectrum (Y), computing an intensity scaling factor (c i ) for each identified sub-band (bi) by minimizing a measure of the intensity difference between those parts of the reference speech spectrum (X) and of the test speech spectrum (Y) that correspond to the respective sub-band (b i ), multiplying the test speech spectrum (Y) with each intensity scaling factor (c i ) thereby generating a number of scaled test speech spectra (Y i ), selecting one scaled test speech spectrum, and computing the difference between the selected scaled test speech spectrum (Y sel ) and the reference speech spectrum (X), the difference being indicative of the speech quality of the test speech signal (102). The invention furthermore relates to a method for estimating speech quality in which the reference and the test speech signal are aligned and to a method for estimating speech quality that deals with interruptions and speech loss.

IPC 8 full level

**G10L 19/00** (2013.01); **G10L 25/69** (2013.01)

CPC (source: EP)

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Cited by

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