

Title (en)
Automatic segmentation in speech synthesis

Title (de)
Automatische Segmentierung bei der Sprachsynthese

Title (fr)
Segmentation automatique dans la synthèse vocale

Publication
EP 1860645 A3 20080903 (EN)

Application
EP 07116265 A 20030327

Priority
• EP 03100795 A 20030327
• US 36904302 P 20020329
• US 34186903 A 20030114

Abstract (en)
[origin: EP1860645A2] In a system having a speech inventory that includes phone labels that are concatenated to form synthetic speech, a method for segmenting the phone labels comprises: performing an alignment on a trained set of HMMs to produce phone labels that are segmented, wherein each phone label has a spectral boundary; and performing spectral boundary correction on the phone labels, wherein spectral boundary correction re-aligns each spectral boundary using bending points of spectral transitions, wherein the phone labels having spectral boundary correction are used for speech synthesis.

IPC 8 full level
G10L 13/06 (2006.01); **G10L 15/14** (2006.01)

CPC (source: EP)
G10L 13/06 (2013.01)

Citation (search report)
• [A] EP 1035537 A2 20000913 - MATSUSHITA ELECTRIC IND CO LTD [JP], et al
• [X] BRUGNARA F ET AL: "AUTOMATIC SEGMENTATION AND LABELING OF SPEECH BASED ON HIDDEN MARKOV MODELS", SPEECH COMMUNICATION, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 12, no. 4, 1 August 1993 (1993-08-01), pages 357 - 370, XP000393652, ISSN: 0167-6393
• [A] TOLEDANO D T: "Neural network boundary refining for automatic speech segmentation", 2000 IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL, vol. 6, 5 June 2000 (2000-06-05), pages 3438 - 3441, XP010505636
• [A] HON H ET AL: "Automatic generation of synthesis units for trainable text-to-speech systems", ACOUSTICS, SPEECH AND SIGNAL PROCESSING, 1998. PROCEEDINGS OF THE 1998 IEEE INTERNATIONAL CONFERENCE ON SEATTLE, WA, USA 12-15 MAY 1998, NEW YORK, NY, USA, IEEE, US, 12 May 1998 (1998-05-12), pages 293 - 296, XP010279159, ISBN: 0-7803-4428-6

Designated contracting state (EPC)
DE FI FR GB NL

DOCDB simple family (publication)
EP 1860645 A2 20071128; EP 1860645 A3 20080903; EP 1860646 A2 20071128; EP 1860646 A3 20080903

DOCDB simple family (application)
EP 07116265 A 20030327; EP 07116266 A 20030327