Title (en)

Speech synthesis apparatus.

Title (de)

Sprachsyntheseeinrichtung.

Title (fr)

Dispositif de synthèse de la parole.

Publication

EP 0139419 A1 19850502 (EN)

Application

EP 84305918 A 19840830

Priority

JP 15771983 A 19830831

Abstract (en)

The invention provides a speech synethesising apparatus in which a character string translator 1 converts each word in an encoded input character string into a phoneme string corresponding to the characters in the word using a word memory 2. Next, a variable phoneme detector 3 detects those phonemes in the string the values of whose prosodic parameters may be modified due to the existence of an influencing phoneme at another location in the phoneme string, by comparing each phoneme with phonemes stored in variable phoneme memory 4. If a variable phoneme is detected in the phoneme string, a search is made by an influencing phoneme detector 5 for influencing phonemes at the location in the phoneme string indicated by the variable phoneme detector. The variable phoneme memory stored, along with each variable phoneme, the predetermined relative location at which an influencing phoneme may be found. If an influencing phoneme is detected at the appropriate location relative to the variable phoneme the influencing phoneme detector will output data representative of a modification in the value of a selected parameter (duration, pitch or power) of the variable phoneme. The phoneme string is then delivered to a parameter value determining unit 7, where standard and modified data are combined. Finally, the phoneme string, parameter values, and modification data are supplied a parametric synthesizer 7, which assembles them into synthetic speech.

IPC 1-7

G10L 5/04

IPC 8 full level

G10L 13/06 (2013.01); **G10L 13/08** (2013.01); **G10L 13/10** (2013.01)

CPC (source: EP)

G10L 13/08 (2013.01)

Citation (search report)

- [A] GB 1592473 A 19810708 - EDINEN ZENTAR PHYS
- [X] EDN - ELECTRICAL DESIGN NEWS, vol. 25, no. 14, August 1980, pages 99-103, Denver, US; E. TEJA: "Versatile voice output demands sophisticated software"
- [A] ICASSP 82 - PROCEEDINGS OF THE IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH AND SIGNAL PROCESSING, 3rd-5th May 1982, Paris, FR, vol. 3, pages 1589-1592, IEEE, New York, US; D.H. KLATT: "The klattalk text-to-speech conversion system"
- [A] ICASSP 80 - PROCEEDINGS OF THE IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH AND SIGNAL PROCESSING, 9th-11th April 1980, vol. 2, pages 576-579, IEEE, New York, US; J. BERNSTEIN et al.: "Unlimited text-to-speech system: description and evaluation of a microprocessor based device"

Cited by

US5745650A; CN111177542A; US5546500A; ES2037623A2; AT400646B; JP2010091829A

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DE FR GB

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