TECHNOLOGY

A Probabilistic Acoustic-Phonetic Approach to Automatic Speech Recognition

OVERVIEW

The state of the art voice recognition systems use very little knowledge of acoustic-phonetics and are largely dependent on statistical modeling.

This invention, brings together knowledge of acoustic-phonetics and statistical pattern recognition to build a system, called Event-Based System (EBS) for automatic speech recognition. The system is based on representation of speech sounds by bundles of binary valued phonetic features.

This system not only obtains better accuracy in identification but also, unlike other systems, does not require initial training to 'learn" to recognize.

For additional information, please contact the University of Maryland Office of Technology Commercialization, otc@umd.edu or 301-405-3947.

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Additional Information

INSTITUTION

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PATENT STATUS

Patent(s) pending

LICENSE STATUS

Contact OTC for licensing information

CATEGORIES

- Information Technology

EXTERNAL RESOURCES

- US Patent 7,664,642

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