ARTICULATORY FEEDBACK FOR PHONETIC ERROR-BASED PRONUNCIATION TRAINING

Tech ID: 34126 / UC Case 2025-173-0

PATENT STATUS

Patent Pending

BRIEF DESCRIPTION

A verbatim phoneme recognition framework that transcribes what a person actually says, including accents and dysfluencies, to provide precise feedback for pronunciation training.

SUGGESTED USES

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Advanced pronunciation training systems and language learning applications.

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Voice-based user interfaces and transcription services to improve accuracy when dealing with non-standard pronunciations.

ADVANTAGES

Ability to provide precise, phoneme-level feedback on pronunciation, which is a significant improvement over current methods that often fail to account for phonetic variability.

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Accurate detection of what is actually said, offering more meaningful articulatory feedback.

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Development and open-sourcing of the VCTK-accent dataset and the introduction of new evaluation metrics, creating a new standard for assessing phonetic error detection systems.

RELATED MATERIALS

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INVENTORS

» Anumanchipalli, GopalaKrishna

OTHER INFORMATION

CATEGORIZED AS

» **Communications**
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» Other
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» Other

RELATED CASES

2025-173-0

ADDITIONAL TECHNOLOGIES BY THESE INVENTORS

- Realtime Transformation Of Voice For Privacy Protection
- Methods To Dysfluent Speech Transcription And Detection

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