

The Office of Technology Management

UNIVERSITY OF TEXAS  ARLINGTON

Tech ID: UTA 15-36

Accent Trainer with Visual and Haptic Feedback

INVENTORS: Jodi M Tommerdahl, Samir M. Iqbal, Md. Motasim Bellah, & Mohammad Raziul Hasan

TECHNOLOGY NEED

Research findings show that the primary difficulty in learning a foreign language develops with the oral and written aspects of the language. The ability to learn a new language is lost by the age of approximately 18 months in humans not exposed to non-native sounds. Often there is a difficulty for language learners to differentiate between the target sound and own sound, eventually leading to a foreign accent when speaking a new language. Even though the current state of art provides several platforms to learn a new language, there is a need for a feature to provide feedback to the speaker.

INVENTION DESCRIPTION/SOLUTION

A novel software that can play any sound in a given language, hear the speaker and provide immediate feedback in a graphical and haptic format regarding how close the attempt was to a native speaker. The software also plays a list of common words in a language using a particular sound and has the capability to provide feedback for both vowel and consonant sounds. The software can be run on all computing platforms while leveraging cloud computing resources and data can be shared among various platforms using cloud data storage.

APPLICATIONS

- Digital software
- Mobile applications
- ESL programs
- Educational institutions

KEY BENEFITS

- Quantitative and immediate feedback
- Compatible with all computing platforms
- Useful to people with hearing impairments

STAGE OF DEVELOPMENT

Prototyped and tested

INTELLECTUAL PROPERTY STATUS

PCT patent application



More about the Inventors:

[Jodi M Tommerdahl](#),

[Samir M. Iqbal](#),

[Md. Motasim Bellah](#), &

[Mohammad Raziul Hasan](#)

Contact information

For licensing, please contact

Sharon Ngwenya, Ph.D.

(Licensing Associate)

sngwenya@uta.edu

otm@uta.edu

P: 817.272.1130

Our mailing Address:

The Office of Technology Management

701 S Nedderman drive,

Suite 350, Arlington, TX

76019

Connect with us:

