Abstract

Translinguator is a web based application that can be employed with the help of cloud computing technology. The application can be integrated with devices such as Mobile phones, tablets etc, or it can be designed with dedicated hardware as an independent device. It mainly involves the integration of various existing concepts in a specific sequence to obtain the unique desired output. This application is targeted in receiving the voice input of a speaker in a foreign language and translating it to the language known by the listener. The uniqueness of this application is that it can produce the translated output in a language which is known and desired by the listener (the person who is using the device) and that too in the same voice as the speaker using voice forensic analysis of the input speech. It employs the very common algorithms used in Speech recognition Engines (SRE), Text To Speech converter (TTS), Voice comparator & morpher, etc. The device/application can benefit a wide range of users such as
students, travellers, PRO's etc. It is very economical as well as affordable to employ both as a dedicated device or an embedded web-based application.

 References

- Rajkumar Buyya, Chee Shin Yeo, and Srikumar Venugopal "Market-Oriented Cloud Computing: Vision, Hype, and Reality for Delivering IT Services as Computing Utilities"; The 10th IEEE International Conference on High Performance Computing and Communications, pp. 10 Table 1
- Jacob Benesty, Jingdong Chen, Yiteng Huang in Microphone array signal processing, 2008 edition.
- Google translator http://translate.google.com/support/
- Wenjie Li, Diego Mollá-Aliod, "Computer Processing of Oriental Languages: Language Technology for the Knowledge-based Economy"; in ICCPOL &apos;09, Hong Kong.
- Tian, J.; Suontausta, J.; Speech & Audio Syst. Lab., Nokia Res. Center, Tampere, Finland, "Scalable neural network based language identification from written text"; in ICASSP &apos;03.
- Turk, O.; Schroder, M.; Sensory, Inc., Portland, OR, USA, "Evaluation of


**Index Terms**

Computer Science

Emerging Trends in Technology

**Keywords**

Cloud Computing  Speech Synthesis  Voice Forensics  Tts (text-to-speech)

Web-technology

Sre (speech Recognition Engine)