

Spanish-English Menu Translation for Handheld Devices

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Categories:

- Computer Technology

Keywords:

- Computer Technology
- Food and Nutrition
- Software

Many people who travel to foreign nations utilize machine translation (MT) devices to translate text or speech from one language to their native tongue. Text in restaurant menus is commonly translated with handheld MT devices that are connected to the internet.

Purdue University researchers have developed an improved technology that facilitates the Machine Translation of restaurant menus. In this, they have created a graphical user interface (GUI) that sends text to a statistical machine translator (SMT). The SMT determines possible translations of a word. These translated words are then used to find similar ingredient and dish entries, which are then stored into an organized database of groupings accessible by the user, through the GUI. This data storage system allows for menu text translation without internet connection and gives foreign diners the ability to select desired foods with accuracy. Moreover, this device allows travelers with food allergies or those that follow a specific diet to safely choose a dish within their individual eating constraints.

Advantages:

- Menu translation without internet connection
- Foreign diners can select desired foods
- Travelers with food allergies or specific diets can accurately select

Potential Applications:

- Restaurant apps
- Travel apps
- Food and nutrition

People:

- Boutin, Mireille (Project leader)
- Delp III, Edward John
- Pozo, Albert Parra

Intellectual Property:

Contact OTC:

Purdue Office of Technology Commercialization
The Convergence Center
101 Foundry Drive, Suite 2500
West Lafayette, IN 47906

Phone: (765) 588-3475

Fax: (765) 463-3486

Email: otcip@prf.org