EU-BRIDGE Partners

RWTH, KIT, HKUST, UEDIN, FBK, PJIIT, PEV

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EU★BRIDGE

SEVENTH FRAMEWORK PROGRAMME

www.eu-bridge.eu

EU-BRIDGE - the Project

EU-BRIDGE is a European Integrated Project that aims at developing automatic transcription and translation technology that will permit the development of innovative multimedia captioning and translation services of audio-visual documents between European and non-European languages.

Technology Support for
High-quality Speech Translation Engines

Description and Exploitable Knowledge

Ongoing research provides the basis for state-of-the-art and high-quality speech translation systems. By applying newly developed technology, the translation quality of existing engines is improved. Further, the engines become more robust and stable for a broad range of language pairs.

The challenge is to developed methods for the needs of different applications (e.g. translation of lectures, TV shows etc.). Special focus is given to adaptation methods in order to take into account the fast changing domains of the application tasks.

Furthermore, the translation of speech is a more challenging task than the written text translation. In contrast to translation of written text, speech translation has to deal with missing punctuation, speech disfluency and recognition errors (as the input is automatic transcribed speech). Thus, the aim of developed techniques is to fix theses errors and to reintroduce punctuation marks.

The ultimate goal is to improve the quality of speech translation in order to increase the user acceptance of the produced output. To reach this objective, ongoing research for speech translation is very important.

Infrastructure

An essential part of the technology support is the actual transfer of new methods into the existing engines. However, before a newly developed feature is included into a running system, the impact will be verified in internal evaluations. Besides automatic evaluation metrics, tests based on human scores are employed. This verification ensures a continuous improvement of the used systems and a high-quality speech translation.

Terms of Availability

Can be inquired at RWTH Aachen University (Hermann Ney)

IPR Protection

RWTH Aachen University (Hermann Ney)