

EMOTION – ADAPTIVE MULTILINGUAL MEDIA TRANSLATION

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Abstract:

The "Emotion Adaptive Multilingual Media Translation" (EAMMT) project aims to revolutionize the way media content is translated and localized across different languages and cultures. EAMMT leverages advanced artificial intelligence and natural language processing techniques to not only translate text but also adapt the emotional tone and intent of the original content. This ensures that the translated media retains the emotional impact and cultural relevance of the source material.

EAMMT goes beyond traditional translation by incorporating emotion recognition and adaptive modulation, allowing the translated content to resonate with audiences on a deeper level. The system is designed to handle various media types, including films, television shows, and online videos, providing accurate translations in multiple languages while maintaining the emotional integrity of the original work.

Key features of EAMMT include emotion recognition, real-time translation adaptation, and multilingual support, making it an essential tool for content creators, broadcasters, and streaming services looking to deliver emotionally engaging content to global audiences.

Our upadation in this project:

The EMMAT (Emotion Adaptive Multilingual Media Translation) project has made significant strides in developing a web application that enhances the user experience when consuming media content across different languages. Our latest update introduces a powerful feature where users can upload a video in any language, and the system will automatically convert the language of the video to the user's preferred language.

This conversion is not just a straightforward translation; EMMAT detects the emotional tone of the human voice in the original video and adapts the translated language to preserve the same emotional expression and slang. Additionally, the app offers customizable subtitles, allowing users to choose how the subtitles appear, whether they match the translated language or provide a direct translation of the original speech.

By combining emotion detection, language translation, and subtitle customization, EMMAT ensures that the translated content resonates with the audience just as the original would, maintaining the emotional depth and cultural nuances.

Referred papers on EAMMT:

"Speech Emotion Recognition Using Deep Learning Techniques"

- **Authors:** László Tóth
- **Summary:** This paper explores various deep learning techniques for recognizing emotions in speech, which is crucial for detecting and preserving emotional tone in multilingual media translation.

"Automated Dubbing: A Multimodal Translation Approach"

- **Authors:** Tobias Gysi, et al.
- **Summary:** This study focuses on automated dubbing techniques, particularly the alignment of emotional tone in multilingual translations, which aligns well with EMMAT's objectives.

