

2025 International Conference on Next Generation of Green Information and Emerging Technologies : Submission (613) has been created.

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Hello,

The following submission has been created.

Track Name: GIET2025

Paper ID: 613

Paper Title: LipVision: Video Lip-Reading Using Deep Learning

Abstract:

In recent years, lip-reading technologies have gained significant traction, highlighting their critical role in enhancing communication in various domains. This research presents "LipVision," a deep-learning web application designed to accurately interpret and translate spoken sentences by analyzing the lip movements of speakers in videos. By leveraging cutting-edge machine learning and deep learning frameworks, including 3D Convolutional Neural Networks, TensorFlow, OpenCV, NumPy and Bi-LSTM, LipVision delivers a robust solution for video lip reading. The web application is built using HTML, CSS, and JavaScript, along with Python frameworks such as Flask and Googletrans, ensuring a seamless and interactive user experience. The deep learning model is rigorously trained and evaluated using the GRID Audiovisual Sentence Corpus, an extensive and diverse dataset renowned for its comprehensive coverage of audiovisual speech. The results demonstrate the model's proficiency in deciphering and translating spoken sentences with high accuracy, showcasing its potential for real-world applications. LipVision holds promise for various sectors, including defense and security, where silent communication is paramount, and in assisting individuals with hearing impairments by providing an alternative means of understanding spoken language. LipVision underscores the transformative potential of integrating deep learning with lip-reading technologies, paving the way for future advances in speech recognition and communication accessibility.

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Secondary Subject Areas: Not Entered

Submission Files:

PID_12_Final_Paper_compressed.pdf (693 Kb, Tue, 08 Apr 2025 12:16:05 GMT)

Submission Questions Response: Not Entered

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