

Hong Kong Applied Science and Technology Research Institute 香港應用科技研究院

Smart Virtual Agent & GenAI Realistic Avatar

ASTRI's speech recognition incorporates the researches in speech-to-text in Cantonese mixed with English (as well as professional terms, industrial jargons and slangs), speaker diarization, voiceprint verification and indexing to address the challenges of information retrieval from a large quantity of audio.



Virtual Agent

Speech Recognition

ASTRI'S NLP for analysing enquiries that are not supported by prior data training or any existing keywords database. We help to build Domainspecific database management platform for non-IT users to build and customise client-specific knowledgebase. NLP can parse Chinese sentences and understand the contextual meanings.



Accuracy 85+% in specific domain

Emotion detection

Audio indexing

For any inquiries please contact Ms Sharon Ling via email sharonling@astri.org

Highlights

- Large Language Model are deep learning algorithms that can recognize, summarize, translate, predict, analyse and generate content using very large datasets.
- Domain-specific Large Langue Model is fine-tuned large language model with domains dataset.
- Text-to-speech support Cantonese mixed with English, Mandarin, English with voice cloning and voice conversion.
- Knowledge Graph provides a richer context and understanding of info by representing entities and their relationships, enabling both humans and machines to better interpret and interact with the data.

Realistic Avatar Generation

- Generate realistic avatar video with matching voice
- Text or audio driven half body emotional talking head generator
- Lip, head and gesture synchronization engine to support multi-lingual translation of avatar content



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