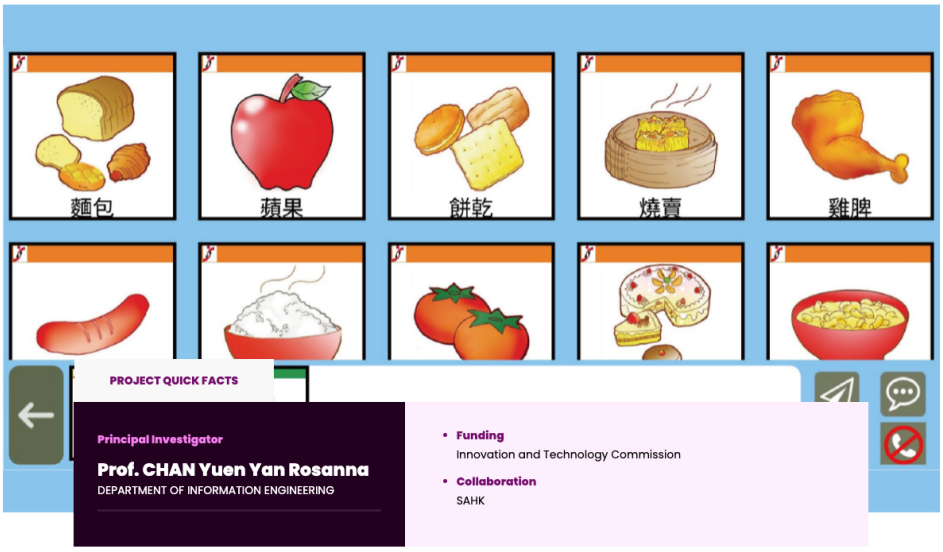
Semantic Image-Based Cloud Augmentative and Alternative Communication (Cloud AAC) System

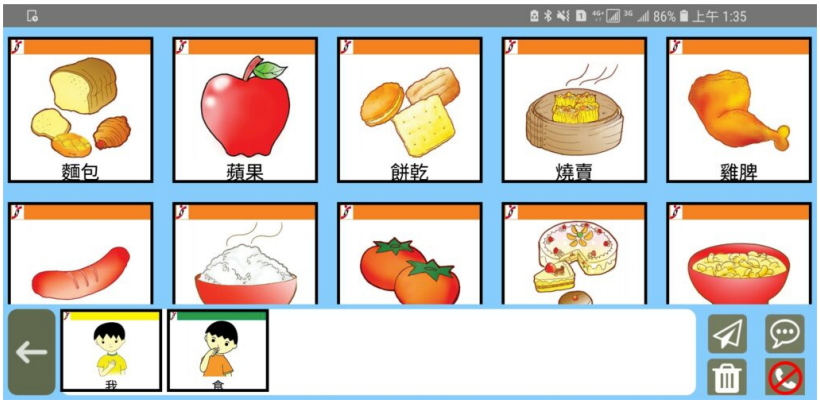
#AI #Rehabilitation #Cloud #2019



People with complex communication needs, such as those with cerebral palsy, dementia, aphasia, developmental disorders, and those in acquired medical conditions, do not possess the necessary cognitive abilities and/or motor skills to conduct daily verbal communication. They often need to rely on augmentative and alternative communication (AAC) to express their thoughts, feelings, and needs. This project aims at enabling end users with complex communication needs to conduct real-time telephone-like conversations. We have developed the world's first-of-its-kind cloud AAC system, and piloted it with people with severe communication disabilities, so as to help developing and promoting their communication competence.

Uniqueness and Competitive Advantages:

- Successfully applied artificial intelligence and cloud communications to AAC to enable daily mobile communication in people with complex communication needs.
- The system will gather anonymized AAC usage data, and can inform speech therapy practices with big data analytics.
- The project technology will be transferred to SAHK and productized into EasyDial for usage in regular rehabilitation service.



User interface of the system prototype of EasyDial and semantic recommendation function of AAC symbols.

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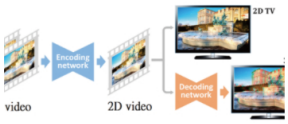

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