

AI-powered sign language learning support system recognizes and evaluates hand gestures.

Hoang Nhat Minh

Abstract: In the increasingly developing context of artificial intelligence (AI) technology, building a sign language learning support system to address the problem of hand gesture recognition and evaluation is becoming urgent. This topic focuses on researching and deploying an AI system with the goal of enhancing communication efficiency for people with language disabilities. The method combines AI research theory with experimentation to build an accurate hand gesture recognition model through machine learning. The expected results of this topic not only contribute to improving the quality of life for those in need of support but also expand the application of AI technology in the fields of healthcare and education.

Keywords: AI system, Hand gesture recognition, Sign language, Communication assessment, Artificial intelligence