

Application of artificial intelligence in sign language recognition and conversion to text

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Abstract: In the context of high demand for processing and analyzing information from sign language images, this topic focuses on applying artificial intelligence technology to develop an automatic recognition system for sign language. The goal of the research is to build a machine learning model capable of quickly and accurately converting sign language expressions into readable text. The research method includes theoretical analysis of image processing and machine learning, along with experimentation with advanced algorithms to optimize recognition results. The expected results will contribute to the development of assistive technology for people with disabilities and can be expanded for applications in various fields such as education and communication.

Keywords: artificial intelligence, sign language, text conversion