

Sign language recognition system for the hearing impaired

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Abstract: In educational practice and communication, developing a sign language (ASL) recognition system is necessary to support the deaf community. This project focuses on building an automated system to address this issue by applying image signal processing and machine learning techniques. The research method combines theory with experimentation to optimize the system's accuracy. The expected outcome is to create a useful tool that can be applied in various educational and community environments, contributing to improved communication for the deaf.

Keywords: Sign language recognition system, ASL, machine learning, image signal processing, deaf people