

Building a sign language recognition system based on deep learning

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Abstract: Research topic on applying the latest version of the YOLO (You Only Look Once) model to recognize hand gestures in sign language via webcam. The author focuses on optimizing the model to achieve real-time processing speed on devices with standard configurations. The system helps convert sign language gestures of hearing-impaired individuals into text and speech, contributing to breaking down communication barriers in daily life. Keywords: Sign language, Deep Learning, YOLO, Gesture recognition

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