

ABSTRACT

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APLIKASI PENGENALAN ABJAD BAHASA ISYARAT DALAM SISTEM ISYARAT BAHASA INDONESIA (SIBI) MENGGUNAKAN PYTHON

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(xiii + 86 + Attachment)

The Indonesian Sign Language System (SIBI) is a sign language system based on the Indonesian language. This means that every word in the Indonesian language has an equivalent sign in SIBI. SIBI also uses a grammar structure similar to Indonesian. Signs in SIBI are formed from various hand movements, hand positions, and body movements. Hand movements are the most important movement in SIBI. Hand positions are also important, especially for differentiating between similar signs. Body movements can be used to add meaning or to emphasize signs. Vocabulary in SIBI is arranged alphabetically. Each word has a unique sign. Signs for similar words usually have similar hand movements or positions. Through hand gesture recognition using technologies such as image processing and pattern recognition, SIBI is able to recognize and translate hand gestures into text or speech in a language that the user understands. The application also provides the possibility to save and manage common phrases or sentences in Indonesian sign language, making everyday interaction easier.

Reference (2016–2023)