ROW AND COLUMN FEATURE APPROACH TO LIPS TRACKING FOR IDENTIFY INDONESIAN WORDS

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Abstract

Deaf is the inability to capture sound. Deaf use sign language to communicate with others. In addition to sign language, a deaf patient can recognize by lip reading to understand the word or phrase that mean and tell by other people. Not all deaf people take advantage of this way to communicate. Various methods proposed to help identify and recognize patterns of lip motion in say a word. Input of video sequences from lip movements set key point to get the Row parameter by taking the maximum axis of the upper and bottom lips from the first frame. Then the points are used to reference for image plotting lips movement for next frame. Plotting results will be processed using wavelete method to get feature and then it will be classified. This research is expected to be able recognize lips movement pattern recognition in indonesian word, so it can reduce communication problem between deaf people with others who do not understand sign language. Using SVM method to classified a class obtain 75% accuracy.

Key-words: deaf, lip motion tracking, wavelet