Abstract

This paper implements a hand gesture recognition technique by using the SIFT based feature extraction. The matching point threshold has been calculated by using the neural network on the basis of the input gesture and the training. The paper implements the work by using the MATLAB and analyzes the results on the various sign of ASL. The system shows the accuracy of 93.3% i.e. improved by approx. &% as compared to the existing 85.9%. The system discussed in the paper is also robust as it shows the accurate results on the manipulated gestures.

References

ICCSIT 2009. 2nd IEEE International Conference on (pp. 433-437). IEEE.


Computing, Communication and Applications (ICCCA), 2012 International Conference on (pp. 
1-6). IEEE.


on Local Contour Sequence. International Journal of Advanced Research in Computer Science 
and Software Engineering, Volume 3, Issue 7, July 2013 ISSN: 2277 128X.

Processing and Recognition of Multiple Static Hand Gestures for Human-Computer Interaction. 
In Image and Graphics (ICIG), 2013 Seventh International Conference on (pp. 465-470). IEEE.

Index Terms

Computer Science          Pattern Recognition

Keywords

ASL, Hand Gesture, SIFT, Neural network, Threshold.