Dynamic Hand Localization and Tracking using SURF and Kalman Algorithm

Abstract

Moving Object detection and tracking its path now-a-days has become very interesting field of research. But current state of art is still facing many challenges due to natural factors of the object and environmental factors, which plays significant role in determining efficiency of visual tracking system. This paper is a part of work in the field of Dynamic Hand Recognition. It highlights the important challenges faced in locating and tracking non rigid object, hand and proposes a system to locate hand using SURF algorithm and tracking its path using Kalman filter. The proposed work will be helpful in improving the efficiency in Human Computer Interaction using hand.

References

- Shan C., Tan Tieniu, Yucheng W., "Real-time hand tracking using a mean shift

Index Terms

Computer Science

Algorithms
Keywords
Box Filter  Detection  Kalman Filter  SURF  Tracking