



# Human-Computer Interaction: Gesture Spotting and Recognition

*Mahmoud Elmezain, Ayoub Al-Hamadi*

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Even though automatic hand gesture recognition technology has been applied to real-world applications with relative success, there are still several problems which need to be addressed for wider applications of Human-Computer Interaction. One of such problems which arise in hand gesture recognition is to spot meaningful gestures from the continuous sequence of the hand motions. Another problem is caused by the fact that there is quite a bit of variability (i.e. in shape, trajectory and duration) in the same gesture even for the same person. Throughout literature, the backward spotting technique is used which first detects the end points of gestures and then tracks back through their optimal paths to discover the start points of gestures. Upon the detection of the start and the end points, in between points trajectory is sent to the recognizer for recognition. So, a time delay is observed between the meaningful gesture spotting and recognition. This time delay is unacceptable for online applications. Given the fact of high variability of corresponding gesture to other gestures, modeling the other gesture is a vital issue to accommodate the infinite number of non-gesture patterns.

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