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Abstract
Nowadays, the application of computer vision to human behavior analysis becomes more and more popular. The topic of how to develop human-machine interfaces to interpret the human’s behavior is worth considering.
This research is concerned with using some techniques of computer vision, such as the Modified Adaptive Background Subtraction and Motion History Image, to find out and record the historical movement of the target’s hands. The hand’s behavior can be concluded from analyzing these records.
In this study, the hand’s behavior analysis is applied to a conference system. When speakers wave their hands, this system can immediately output a signal to control the slide page up and down in response to the gestures. In addition, the electronic projection screen can be also controlled by the proposed method.
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