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(57) Abstract :
The present invention provides an artificial intelligence-powered virtual mouse (100) for intuitive interaction comprise of an image capturing unit (1), a plurality of modules (2), a control unit (3). The recognition module (7) is configured to recognize one or more gestures from the pre-processed image or video by analysing the mapped set of gesture related features obtained from the feature mapping module (6) with the help of set of pre-stored features stored in a database. The execution module (8) is configured to implement one or more instruction present in the gesture recognized by the recognition module (7) in a computer system, thereby providing a seamless and intuitive user interaction experience. The control unit (3) is configured to coordinating a plurality of functionalities of the plurality of modules (2) to maintain high accuracy of the system.

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