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(57) Abstract :  
 Disclosed herein is a real-time gesture recognition system and method thereof (100) that comprises a data acquisition unit (102) configured to capture video input from a user performing gestures, a processing unit (104) operatively connected to the data acquisition unit (102), the processing unit (104) comprising; a feature extraction module (106) configured to detect and extract gesture-related landmarks, a classification module (108) configured to analyse extracted gesture-related landmarks, a response generation module (110) configured to map classified gestures to corresponding system commands, a contextual adaptation module (112) integrated into the processing unit (104), a communication network (114) facilitating data exchange between a user device (116) and the processing unit (104), a user device (116) communicatively connected to the processing unit (104) via the communication network (114), a user interface (118) integrated into the user device (116), the user interface (118) configured to display the recognized gestures in real-time.

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