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(57) Abstract :

Disclosed herein is a system (100) for gesture-based keyboard and mouse, the system (100) comprising a keyboard and mouse housing (102) further including a camera unit (104) configured to capture video feed. The keyboard and mouse housing (102) also comprises a hand tracking module (106) configured to detect hand and finger movements and a gesture processing unit (108) configured to map the landmark positions to screen coordinates. The keyboard and mouse housing (102) further comprises a gesture-based control unit (110) configured to map gestures to actions and the gesture-based control unit (110) is linked to a gesture library (112) configured to store predefined gestures and their corresponding actions. The keyboard and mouse housing (102) also comprises a processing unit (114) configured to convert gestures into actionable commands. The system (100) also includes a communication unit (116) configured to provide wired or wireless connectivity.

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