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(57) Abstract :

The present invention relates to a virtual trial room system and method for providing an immersive and interactive clothing try-on experience to users. The system includes a computer vision module that detects and tracks the user's body pose in real-time, a garment database containing virtual clothing items, and a garment overlay module that renders a selected virtual garment onto the user's body. A gesture recognition module enables the user to interact with the system by using hand gestures to select, adjust, and customize the fit of the virtual garments. The user interface provides a seamless, intuitive experience for browsing and interacting with the virtual wardrobe. The system may further include a backend server for storing user preferences and try-on history to provide personalized recommendations. This innovation reduces return rates, enhances customer satisfaction, and improves the efficiency of online clothing shopping by allowing users to visualize garments on their own bodies in a virtual environment.

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