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(57) Abstract :

The present invention discloses a virtual reality tool for smart medical surgery training comprising a VR headset (101), haptic feedback unit (102), motion tracking sensors (103), AI-based analytics module (104), cloud server (105), and trainee interface (106). The system simulates surgical environments with immersive realism, tactile feedback, and AI-driven performance evaluation. It provides adaptive case libraries, remote collaboration, and personalized skill assessment, thereby offering a safe, scalable, and intelligent training platform for medical institutions and professionals.

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