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(57) Abstract :

The invention provides a real-time posture recognition system that combines computer vision and wearable sensors to detect and correct human posture. Using keypoint detection from video input and motion data from IMU sensors, the system performs sensor fusion to classify posture accurately. On detecting incorrect posture, it delivers immediate feedback through visual, audio, or haptic alerts. The system is designed for low-cost deployment using standard webcams and works reliably under varied conditions, including poor lighting or occlusions. It supports continuous monitoring, posture history tracking, and personalized feedback. Applicable in healthcare, workplaces, fitness, and elderly care, the invention promotes better posture and preventive health management.

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