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(57) Abstract :

The present invention discloses an advanced emotion detection system and method that integrates multi-modal sensing, intelligent signal processing, and machine-learning-based classification to accurately identify human emotional states in real time. The system utilizes facial expression analysis, speech signal processing, physiological parameter monitoring, and contextual behavior patterns to extract high-fidelity emotional indicators. The invention further incorporates a hybrid deep-learning architecture that adaptively fuses multi-modal features to enhance detection accuracy across diverse environments and user demographics. The disclosed method supports scalable deployment across healthcare, automotive, education, security, and human-computer interaction applications. Additionally, the system's modular architecture enables seamless integration with IoT platforms, remote monitoring systems, and cloud-based analytics engines to facilitate continuous learning, robust performance, and personalized emotional insights. Accompanied Drawing [FIGS. 1-2]

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