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(57) Abstract :
 A Sentiment-Adaptive GUI system (100) comprising a sentiment detection module (101), a real-time adaptation engine (102), and a user interface module (103) is provided. The system captures emotional cues through facial recognition (104), voice analysis (105), and text sentiment analysis (106), classifies emotions (107), and dynamically adapts GUI parameters via a dynamic adaptation engine (108). Historical emotional data (109) and a reinforcement learning module (110) enhance personalization, ensuring seamless, emotion-driven user experiences across digital platforms.

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