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(57) Abstract :

The invention discloses an AI-based model for real-time human emotion classification integrating multimodal data sources. The system comprises a facial recognition module (101), speech analysis unit (102), and physiological signal processor (103), fused by a multimodal fusion engine (104) and classified using a deep neural classifier (105). An adaptive feedback mechanism (106) enhances personalization. The invention ensures high accuracy, low latency, and scalability across diverse applications, including healthcare, education, and human-computer interaction.

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