

2025 IEEE 8th International Conference on Pattern Recognition and Artificial Intelligence

Special Session 04

Multimodal Affective Computing and Applications

As a cutting-edge direction in interdisciplinary research, multimodal affective computing is progressively transcending the limitations of traditional unimodal affective analysis. By integrating multi-source heterogeneous data such as speech, text, images, and physiological signals, multimodal affective computing aims to develop more comprehensive and robust emotion recognition and understanding models. These advancements deliver natural and intelligent services for scenarios including human-computer interaction, mental health monitoring, personalized education, and intelligent healthcare. This special session will solicit contributions on the recent progress of multimodal affective computing and applications.



Session Chair

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► Important Dates

Submission Deadline (Regular)

📅 June 20, 2025

Notification Date (Regular)

📅 July 15, 2025

Registration Deadline

📅 July 25, 2025

TOPIC OF INTEREST

Topics of interest include, but are not limited to:

I. Technical Foundations

Speech emotion recognition (recognition, synthesis, etc.)
 Facial expression or micro-expression analysis
 Conversational emotion recognition
 Emotional dialogue generation
 Stance detection and multimodal sarcasm analysis
 Emotionally driven AI virtual digital humans
 LLM-driven affective computing
 Physiological signal-based affective computing (e.g., EEG, ECG, GSR fusion)
 Knowledge-driven emotion reasoning (e.g., emotion-centric knowledge graphs)
 Personality-aware emotion modeling and generation
 Emotion-value alignment and regulation in large-scale language models

II. Application-Oriented Research

Emotion recognition and monitoring in mental health support (e.g., rPPG, depression, anxiety detection, emotion-aware interventions)
 Emotion-aware intelligent customer service and dialogue systems (e.g., adaptive empathy-driven response strategies)
 Affective computing in smart driving and mobility (e.g., driver stress, fatigue, and emotional distraction monitoring)
 Emotion-driven intelligent education technologies (e.g., affect-aware tutoring and engagement tracking)
 Emotionally aware healthcare and human-robot interaction (e.g., improving doctor-patient communication, robotic caregiving)
 Emotion analysis and generation for social media content (e.g., emotional trend analysis, affect-based recommendation and moderation)

► Publication

IEEE Accepted papers will be published in PRAI 2025 Conference Proceedings, and submitted for inclusion into IEEE Xplore and indexed by EI Compendex & Scopus.

► Submission Information

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