

2026 IEEE 9th International Conference on PATTERN RECOGNITION AND ARTIFICIAL INTELLIGENCE

SPECIAL SESSION 07

Multimodal Affective Computing and Applications

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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.

Related Topics

Topics of interest include, but are not limited to:

I. Technical Foundations

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

II. Application-Oriented Research

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

SESSION CHAIR

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Publication



IEEE

Accepted papers will be published in PRAI 2026 Conference Proceedings, and submitted for inclusion into IEEE Xplore and indexed by EI Compendex & Scopus.

Submission Way

Submit Online:

<https://www.easychair.org/conferences/?conf=prai2026>

(Please choose Special Session 7)

Paper Templates:

Latex:

<https://www.prai.net/ieee-conference-latex-template.zip>

Word:

<https://www.prai.net/instruct8.5x11x2.doc>

For General inquire please contact: praiconf@outlook.com

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Important Date

Final Submission Deadline	July 05, 2026
Final Notification Date	July 20, 2026
Final Registration Deadline	July 25, 2026

* The review period for submissions is typically one month.

