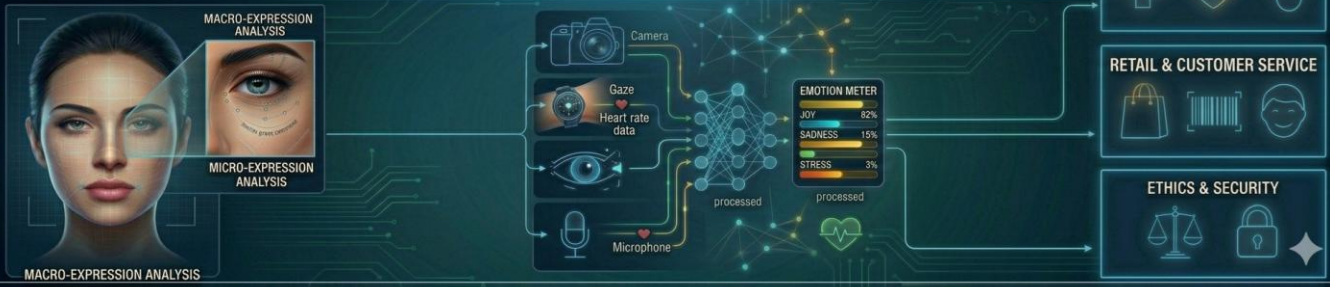


Special Session: Call For Paper:  
**FROM MACRO & MICRO EXPRESSION ANALYSIS TO MULTIMODAL AFFECTIVE COMPUTING: USE CASES, ETHICS, AND SECTOR APPLICATIONS**



This special session expands the lens from facial expression-based analysis to the broader paradigm of multimodal affective computing, exploring how the integration of visual, auditory, physiological, and contextual data is transforming our understanding of human emotion. While macro- and micro-expression analysis remains a key focus, the session broadens its scope to include multimodal approaches—such as vocal tone, gesture, language, biometric signals, and environmental context—that together enable more accurate and context-aware emotion recognition. The session examines the scientific foundations, real-world applications, and the pressing ethical and security challenges posed by these increasingly complex systems. As multimodal technologies gain traction across tourism, healthcare, education, human-computer interaction, and security domains, their development demands human-centered design, regulatory foresight, and rigorous ethical safeguards. The session aims to reinforce a shared commitment to balancing technological innovation with societal responsibility, ensuring that affective computing systems enhance well-being and trust without compromising fundamental rights.

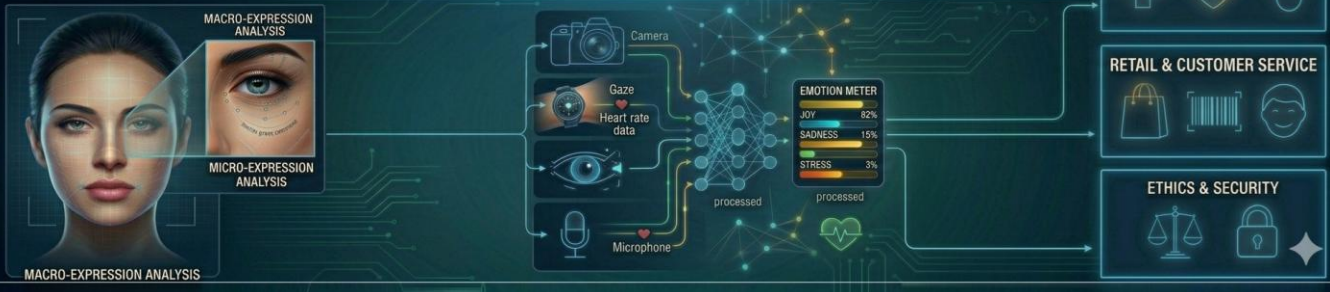
The special session is seeking **forward-looking perspectives** on:

- Multimodal fusion architectures for robust emotion inference
- Cross-cultural validation of emotion datasets
- Explainable AI (XAI) for affective computing systems
- Ethical-by-design frameworks embedded in system architecture
- Real-world deployment and human-centered evaluation

This special session will also explore **application use cases**, particularly in following domains:

- Tourism and Hospitality:** emotion recognition technologies are increasingly being integrated into smart tourism ecosystems. Applications include:
  - Real-time visitor sentiment analysis at airports, museums, and attractions
  - Adaptive service personalization in hotels and theme parks
  - Experience optimization through behavioral analytics
- Healthcare and Mental Health:** in clinical settings, emotion recognition offers promising support tools for:
  - Early detection of depression, anxiety, and stress-related disorders
  - Monitoring emotional states in telemedicine environments
  - Assisting patients with communication impairments (e.g., autism spectrum conditions)
  - Psychological Autonomy: The moral implications of inferring internal states without explicit disclosure

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Finally, the session will emphasize security and risk assessment, focusing on **ethics, privacy, and security**—particularly regarding the ethical governance of emotion AI and its key concerns:

- **Privacy and Surveillance:** The covert capture and analysis of facial data in public spaces
- **Algorithmic Bias:** Disparities in accuracy across demographic groups
- **Data Security:** Risks of biometric data breaches and misuse
- **Informed Consent:** Ensuring individuals understand when and how their emotional data is analyzed

## Paper Submission Guidelines

Special session papers follow the paper submission guidelines as Regular Paper. Page limit is 6 pages. For more details, please refer to:

<https://mipr2026.org/authors/>.

**Templates & Paper Kit:** Download the official IEEE MIPR 2026 Paper Kit (LaTeX & Word): <https://www.ieee.org/conferences/publishing/templates.html>

**Paper Submission Portal:**

**Microsoft CMT:** <https://cmt3.research.microsoft.com/MIPR2026>

Select the track with the specific special session name.

## Important Dates

- **Paper submission deadline:** May 31, 2026
- **Notification of acceptance:** June 15, 2026
- **Camera-ready submission:** June 30, 2026

All deadlines are at the end of the day specified, Anywhere on Earth (AoE).

## Organizers

Patrick Le-Callet, Nantes Université, France ([patrick.lecallet@univ-nantes.fr](mailto:patrick.lecallet@univ-nantes.fr))

Lai-Kuan Wong, Multimedia University, Malaysia ([lkwong@mmu.edu.my](mailto:lkwong@mmu.edu.my))

Lei Gao, Wilfrid Laurier University, Canada ([legao@wlu.ca](mailto:legao@wlu.ca))