Special Issue

Computer Vision Techniques Applied to Human Behaviour Analysis in the Real-World

Message from the Guest Editors

Intelligent devices, such as smart wearables, intelligent vehicles, virtual assistants, and robots, are progressively becoming widespread in many aspects of our daily lives, where effective interaction is increasingly desirable. In such applications, the more information exchanged between the user and the system through multiple modalities, the more versatile, efficient, and natural the interaction becomes. Currently, modern intelligent devices do not take into account the user state sufficiently into consideration and thus suffer from a lack of personalization and low engagement. In particular, interaction logs and verbal data alone are not adequate for genuinely interpreting human behaviours, and therefore there has been a significant effort to analyze human behaviours from video data. Although significant progress has been made so far, there is still much room for improvement in moving from controlled and acted settings to real-world settings.

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Deadline for manuscript submissions

closed (31 December 2022)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/64874

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