Special Issue

Advancements in Wearable Sensors for Affective Computing

Message from the Guest Editors

Affective computing, an interdisciplinary field dedicated to recognizing, interpreting, and simulating human emotions, has been significantly advanced by wearable sensor technologies. Modern wearables are now capable of the continuous monitoring of diverse behavioral and physiological signals including gestures, facial expression, EEG, ECG, PPG, GSR, and more, and are transforming how we understand emotional states in real-world daily settings. These developments have ushered in a new era of ubiquitous computing, where emotion-aware systems seamlessly integrate into daily life through ambient intelligence and context-aware architectures. The applications of wearable sensors for affective computing could have profound and far-reaching impacts in fields such as human–computer interaction, mental healthcare, education, and entertainment.

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