Special Issue

Human Computer Interaction Based on Face Recognition

Message from the Guest Editors

The introduction of robots in environments where they must interact with humans is constantly increasing. In some scenarios, robots must exhibit a proactive behavior; such is the case for assistant robots or caregiver robots that must recognize the people who interact with them. Techniques based on appearance, while useful in other applications such as surveillance, are not suitable in these situations, and a more invariant and noninvasive trait must be considered. One of the most discriminative biometric traits is the face, which also represents the most important part of the body for social interaction. Therefore, any advances in human–robot interactions based on the face will facilitate the integration of robots in service tasks, e.g., as a museum assistant, hotel receptionist, or caregiver. This interaction must go beyond the identification task and can include emotion recognition or lip reading in noisy environments such as hotels or museums.

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