Special Issue

Deep Learning Based Face Recognition and Feature Extraction

Message from the Guest Editors

Human faces play a central role in interpersonal communication and social relationships, which is why their automatic recognition and analysis has attracted the attention of the computer vision community for decades. State-of-the-art facial recognition techniques enable the identification of a person for ID verification as well as to recognize and understand the psychophysical state, which is essential for smooth and high-quality human–computer interaction. Efficient facial recognition, verification, and identification algorithms are essential for developing reliable access control, surveillance, and security systems. In recent years, a number of face recognition methods based on deep learning and various feature extraction techniques have been developed, leading to significant advances in the field. Indeed, face recognition is one of the most active areas in computer vision research, and recent advances in systems based on deep learning have significantly improved their performance compared to solutions using classical machine learning and pattern recognition techniques.

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