

عنوان مقاله:

Multimodal Expression-Invariant Face Recognition Using Dual-Tree Complex Wavelet Transform

محل انتشار:

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خلاصه مقاله:

A new multimodal face recognition method which extracts features of rigid and semi-rigid regions of the face using Dual-Tree Complex Wavelet Transform (DT-CWT) is proposed. DT-CWT decomposes range and intensity images into eight subimages consisting of six band-pass sub-images to represent face details and two low-pass sub-images to represent face approximates. In this work, support vector machine (SVM) has been used as the classifier. The proposed method has been evaluated using the face BU-3DFE dataset containing a wide range of expression changes. Findings include the overall identification rate of 98.1% and the overall verification rate of 99.3% at 0.1% false acceptance rate

کلمات کلیدی:

face recognition; multimodal; complex wavelet expression invariant; SVM

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