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Detection of facial expressions based on Morphological face features and Minimum Distance Classifier

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Abstract

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A facial expression is one of the non-verbal information that plays an important role in understanding face-to-face communications. Therefore, facial expressions are the most important means of detecting emotions and behavioral analysis science. Although human being have ability recognize the face practically without any effort, but facial recognition system is still challenging by machine. This paper addresses the problem of detecting facial expressions of the human face through the analysis of images and subsequent application to video sequences. This work concentrates on the design of a facial expression detection system used to recognize facial emotions by focusing on the analysis of still images based on Morphological features and Minimum Distance Classifier (MDC) for classification.

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