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Face Recognition Using Golden Ratio for Door Access Control System

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139

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Abstract

The paper introduces a method-based correspondence scheme that integrates a permutation of Viola–Jones face detection method with characteristics of extracting golden ratio. The purpose of this article is to help users improve the security of sensitive places through facial recognition. We come to resolve the issue of low precision in the suggested technique. Here, we propose a new scheme for aligning the face using Viola–Jones and support vector machine face detection method followed by extraction technique of golden ratio function. The suggested technique is very effective, more realistic and accurate compared to other face detection techniques. The module contains a secure face identifier. The scheme is designed to satisfy the requirements of classification face to face in real scenario.

Keywords

Viola-Jones	Golden ratio	Support vector machine	Face detection
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