

Understanding the PCA algorithm in face detection problems

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Abstract: In the context of increasingly developing information technology, facial recognition has become an important tool for security and access control. This topic aims to analyze the Principal Component Analysis (PCA) algorithm to address the problem of face detection. Through a combination of theoretical research and experimentation, the topic hopes to provide readers with a better understanding of how PCA works and its application in face detection systems. The expected results will contribute significantly to the field of image recognition research.

Keywords: Principal Component Analysis, Face Detection, Image Recognition