

Face recognition based on Eigenface algorithm

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Abstract: This topic focuses on researching and applying the Eigenface algorithm in the field of facial recognition, an important issue in security and surveillance practice. The objective of the research is to build a facial recognition system based on the Eigenface method to address current challenges. The approach combines mathematical theory and image processing techniques to develop an effective model. The expected outcome of this research is to provide an application solution that can improve the accuracy and speed of current facial recognition systems.

Keywords: Face recognition, Eigenface algorithm, Image processing