ABSTRACT

APPLICATION COMPARISON ALGORITM FISHERFACE METHOD WITH EIGENFACE METHOD ON PATTERN FACE RECOGNITION SYSTEM

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The face is one of the most simple physiological measure and is often used to distinguish the individual identities of each other. Humans can distinguish between people who face each other and remember the person's face quickly and easily. To read the facial characteristics of the reader equipment needed, a database capable of storing data patterns and of course the face of software that can analyze the data. Therefore, the face recognition biometrics technology is one of the many learned and developed by experts.

Of the several kinds of methods, there are two kinds of methods are currently the most popular developed in which facial pattern recognition, Eigenface method and Fisherface method. Especially Eigenface method which is always a choice in the development of facial pattern recognition applications. However, current methods of Fisherface also be another option which is also developed by the developer Eigenface method. In contrast to the method Eigenface, Fisherface method is a new method of facial pattern recognition.

There are some differences in the two algorithm methods. Eigenface algorithm computational complexity is simpler than the algorithm Fisherface. But still need to do research and testing whether Fisherface more effective method than the method Eigenface in facial pattern recognition system. To get the conclusions and provide recommendations for determining facial pattern recognition method is effective for use in a state that has been conditioned using a camera (webcam)

Keyword : image processing, face detection, fisherface, eigenface