ABSTRACT

THE EMPLOYEE PRESENCE SYSTEM ON FACIAL RECOGNITION METHOD

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The attention of researcher to make use of biometric technology in human's life to identify and know more about human characteristic has already used a lot. This technology identifies the unique unchanged part of human body such as finger print, eyes and face. The significant things in identifying and to recognizing men's face is to make use of proceeding and facial image analyzing which will form some facial semantic that help to reveal how does the individual component impersonate in facial identifying. Searching and identifying facial image is one of the beginning steps that are very important before the process of facial identification done.

From this analyze the writer going to design and building some system that to face identification for the employee presentations which using method of participial component analysis (PCA) with algorithm eigenface. The process of face identification was doing with a system of helping things by scanning face such as webcam. For the first step from those system is have to composed all training image going to be some single metrics' and then looking for their eigenface. After that it is will be using for recognition process when the time of presentation.

The test of that system has done with the presence experiment in some part of lighting. The experiment gives the result that the same presentation 85%. The recognize for that normal lighting give the more bests image result. It is because the high lighting effect, the side of faces that so clearly and then complecsitas of face color more high. This complecsitas cause the sensitivity introduction increase because algorithm eigenface in focus to the characteristic of color and object.

Key word: facial recognition, webcam, Participle component analysis (PCA), Algorithm Eigenface