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# Face Detection and Recognition Based E-Learning for Students Authentication: Study Literature Review

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## Abstract

The Authentication process is highly dependent on Face Detection and Face Recognition during learning activities. In addition, in the E-Learning learning system we must also provide accurate and accurate information. The research method used is literature study and analysis. Literature study was carried out on the face of face detection and recognition in real-Time conditions carried out by various previous studies. Furthermore, analysis was carried out in a literature study studio to find suitable methods for the E-Learning environment. From the results of existing literature studies we recommend face detection using Face Countour and the Adaboost Algorithm added to CNN (Convolutional Neural Network)to normalize the facial contour function and normalize lightning in the surrounding environment where a face detection is located. The process is carried out, we use the 3WPCA-MD(Three-Level Wavelet Decomposition Principal Component Analysis with Mahalonobis Distance) method which is able to produce calculations, that is, face recognition that is faster when compared to ordinary PCA (Principal Component Analysis) methods. Thus the process can be carried out in face detection and face recognition. © 2018 IEEE.

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