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Identifying Human Face under video surveillance using Machine Learning Technique

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Abstract and Figures

Automatic Physiognomy recognition systems are now popularly used in various applications ranging from mobile payment verification to inbuild security access. The use of Physiognomy recognition has increased awareness about facial simulation attacks viz is also called as a biometric sensor presentation attack) that can use a picture or motion file of the Physiognomy of an known person with access to facilities or services. While the amount of Physiognomy identification methodologies that have been proposed do have the ability to place general implications however they are not adequately addressed that is why we offer a powerful and robust Physiognomy detection algorithm using image distortion analysis (IDA). Four different properties (Spectrum deflection, interval, color, and variety with colors) these can be separated to create an IDA class feature set vector, which consists of several SVM classifiers that have been trained for disguised Physiognomy forgery. (Eg printed photos and replayed videos) that are utilized to distinguish between true Physiognomy and pseudo-physiognomy. The method that is addressed here covers detecting multiple Physiognomy in a video using voting patterns.



Proposed Architecture Suspect Registration

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