

Research on Computer Vision and its application in detecting and recognizing Face Spoofing

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Abstract: Context/Reason for choosing the topic: In the digital era, the use of face spoofing methods to deceive authentication systems has become widespread, causing serious risks. This topic aims to address this issue through research in Computer Vision and the development of an effective Face Spoofing detection system. Objective: To build and test a Machine Learning model based on Computer Vision to detect forms of face spoofing such as static images, videos, and deepfakes. Method: Theoretical research combined with experimentation to evaluate the accuracy and sensitivity of the system. Significance/Expected results: This topic not only contributes to the understanding of Computer Vision but can also be widely applied in the fields of security, user authentication, and personal information protection.

Keywords: Computer Vision, Face Spoofing, Machine Learning, Cybersecurity, User Authentication