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»IMPACT ON SOCIETY«

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»Detecting Face Morphing Attacks by Analyzing the Directed Distances of Facial Landmarks Shifts«

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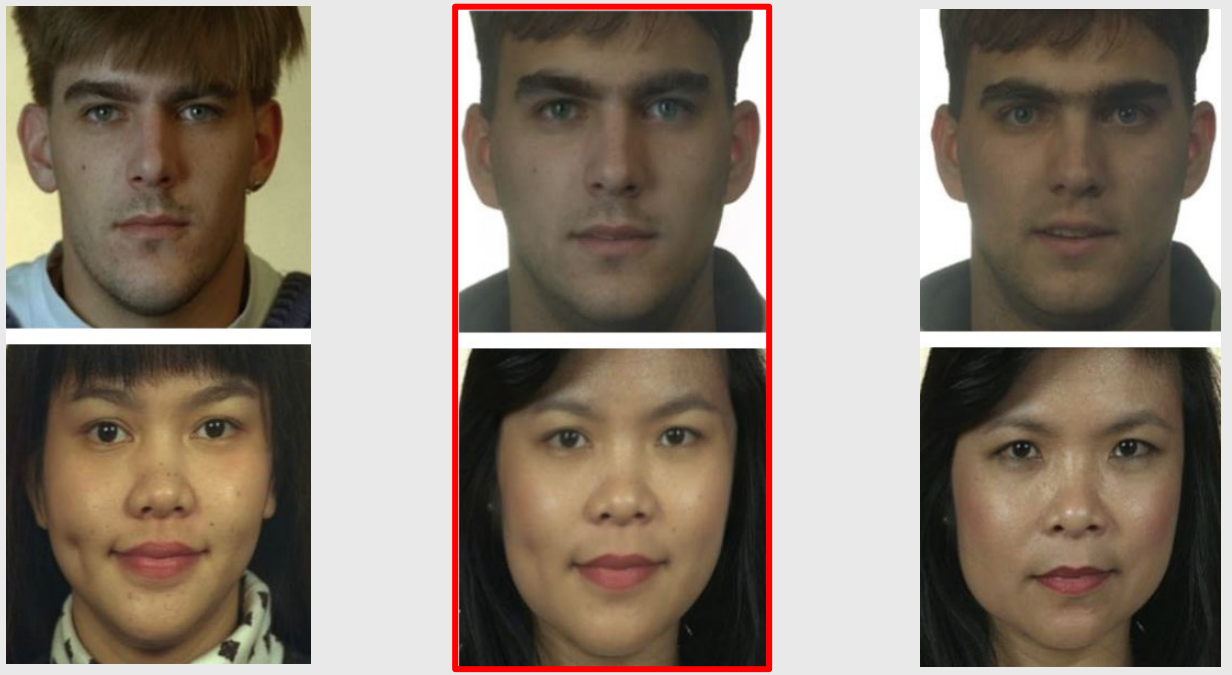
PROBLEM

- Face Morphing allows you to create faces similar to those of two or more people.
- This leads to serious problems in the output and verification of identity documents.
- Can such so-called face morphing attacks be stably and efficiently detected?



Who is that?
Is it the left person or the right person or none of them?

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RESULT

- Novel face morphing attack detection
- Based on the availability of reference images
- Outperforms available baseline concepts

USP

Instead of examining only characteristic changes in the image in question, the new method uses the displacement of landmarks between the image in question and the reference image to determine whether a face morphing attack is present. Both handmade and learned features can be used as landmarks. The comprehensive evaluation of the method shows that it is clearly superior to previous approaches.