



DF Generation and Detection of Partially Manipulated Videos



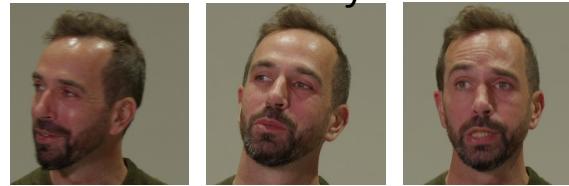
Context

- Continuation of a challenge started last year

Driving video



Dataset of source identity



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- Continuation of a challenge started last year

Driving video



Eurecom's
solution



Dataset of source
identity



Sorbonne's solution



Limits

- Despite promising results, we still need a lot of manual processing steps to obtain a good result



Goal

- Build an **automated** pipeline that generates audio-video deepfakes from pilot and source multimedia.
- We already have the generators:
 - Video: LIA <https://github.com/wyhsirius/LIA>
 - Audio: RVC
<https://github.com/RVC-Project/Retrieval-based-Voice-Conversion-WebUI/blob/main/docs/en/README.en.md>
 - Lip-Sync: Diff2Lip <https://soumik-kanad.github.io/diff2lip/>

Goal

- The pipeline will allow targeting a specific individual.



Goal

- In second time, you'll have to implement a pipeline to detect manipulated sections on the videos
- Given a set of frames, the algorithm has to locate the places that were manipulated.

