Doctoral School of Information and Biomedical Technologies
Polish Academy of Sciences (TIB PAN)

SUBJECT:

Deepfakes vs contra-deepfakes

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DESCRIPTION:

Deepfakes are widely recognized entities created in various biometric techniques, particularly in the face, voice, and many other areas. Deepfakes may have the form of still images, videos, and videos with voice. Any deepfake technique is giving rise to contra-methods which enable to detect whether the object is true or fake. In the fake case, it might be also possible to detect which AI techniques weres used in falsification process.

The proposed research may consists of the creation of contra- techniques for chosen deepfake techniques. In particular, while such contra-techniques may exist for English language, they usually do not exist for Polish speech.

BIBLIOGRAPHIC REVIEW:

2022 D.Dagar, D.K. Vishwakarma, Literature review and perspectives in deepfakes:: generation, detection and applications. Int. J. Multimedia Information Retrieval, 219-289