The 2nd Workshop on the security implications of Deepfakes and Cheapfakes (WDC '23)

—

co-located with ACM ASIACCS 2023

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Overview

The development of techniques for creating completely synthetic photographic images and videos, as well as the increasing prevalence of disinformation associated with such synthetic media, has sparked an interest in the computer community. One such issue is the proliferation of deepfakes. However, much of the research is devoted to outwitting the state-of-the-art in order to generate and detect fabricated images and videos. Considering them from the perspective of computer security and human ethics is largely ignored. As such, this workshop aims to provide a forum for researchers to exchange ideas and methodologies, as well as to provide academia and industry with insights into the development and identification of fake media from a computer security perspective.

Topics

We invite submissions of original contributions on topics related to **deepfakes**, **cheapfakes**, and **deception**. The scope of the workshop includes, but is not limited to, the following areas:

- Practical Attacks using Deepfakes & Cheapfakes
- Realistic Threat Models for Deepfakes
- Defense against Deepfakes and Cheapfakes
- Multimodal Fake Media Detection
- Deepfake Activity Detection
- Deepfakes and Adversarial Attacks
- Adversarial Attacks & Defenses
- Digital Watermarking Techniques & Security Issues
- Content Provenance & Authenticity Frameworks
- Deepfakes in the Metaverse
- Robustness of Deepfake Detectors
- Novel Deepfake Generation Methods
- Ethics in Audio and Video Synthesis
- Fairness and Bias of Detectors
- Empirical Measurements
- Differential Privacy
- Systematisation of Knowledge
- Human Factors in Fake Media
- Human-in-the-loop Solutions

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