Association for Computing Machinery

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ADGD '21

Proceedings of the 1st Workshop on

Synthetic Multimedia – Audiovisual Deepfake Generation and Detection

Sponsored by:
ACM SIGMM

Organizing Committee:

Stefan Winkler, National University of Singapore
Weiling Chen, National University of Singapore
Abhinav Dhall, Monash University & Indian Institute of Technology Ropar
Pavel Korshunov, Idiap Research Institute

Co-located with:
ACM MM '21

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ADGD'21: 1st Workshop on Synthetic Multimedia – Audiovisual Deepfake Generation and Detection Welcome Message

It is our great pleasure to welcome you to the *1st Workshop on Synthetic Multimedia – Audiovisual Deepfake Generation and Detection (ADGD 2021).* The purpose of the workshop is to provide a platform for researchers and engineers to share their ideas and approaches on fake media generation and detection.

The call for papers attracted submissions on a range of topics. After careful review by the program committee, the following papers were accepted into the workshop program:

- Robert Bassett, Kevin Lutz: DeepFake Detection with Inconsistent Head Poses: Reproducibility and Analysis.

- Hasam Khalid, Minha Kim, Shahroz Tariq, Simon Woo: Evaluation of an Audio-Video Multimodal Deepfake Dataset using Unimodal and Multimodal Detectors.

- Nicolas Beuve, Wassim Hamidouche, Olivier Deforges: DmyT: Dummy Triplet Loss for Deepfake Detection.

- Ian Magnusson, Aruna Sankaranarayanan, Andrew Lippman: Invertable Frowns: Modifying Affect in Existing Videos.

We also encourage participants to attend the keynote talks by our distinguished speakers:

- Fighting AI-synthesized Fake Media – Siwei Lyu, SUNY Buffalo

- Representations for Content Creation, Manipulation and Animation – Sergey Tulyakov, Snap Research

- "Deepfake" Portrait Image Generation – Jianfei Cai, Monash University

Putting together ADGD 2021 was a team effort. First of all, we thank the authors and invited speakers for providing the content of the program. We are grateful to the program committee members, who worked hard to review papers and provide feedback to authors in a timely manner under a tight deadline. Finally, we acknowledge the support of AI Singapore.

We hope that you will find the program interesting and insightful, and that the workshop will provide you with a valuable opportunity to exchange ideas with other researchers and practitioners from institutions around the world.

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Table of Contents

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