

# 2022 ICPR Workshop on Artificial Intelligence for Multimedia Forensics and Disinformation Detection (AI4MFDD)

in conjunction with **2022 IAPR ICPR** (<https://www.icpr2022.com/>)

August 21-25, 2022 • Montréal Québec

This workshop is intended to disseminate recent development on AI-enabled multimedia forensics and disinformation detection. Multimedia carries not only the value of its content, but also its value in digital forensics for combating crimes and fraudulent activities. With its apparent commercial value, multimedia piracy continues to be an acute issue, especially in the entertainment industry, despite the earnest search for solutions in the past two decades. Deliberate manipulations of multimedia content for malicious purposes have also been a prevailing problem in many walks of life. With the phenomenal leap of artificial intelligence and machine learning (deep learning in particular) in recent years, realistically forged multimedia is appearing as disinformation and fake news that are impacting on social justice at the personal level and major political campaigns and national security at the national level, as well as affecting the stability of international relationships at the global level. In light of the afore-mentioned issues, this proposed workshop is of great interest to the community and beyond. A non-exclusive topic of interest are

Topics of interest include, but are not limited to:

- Deepfake detection
- Multimedia (including social media) provenance attribution and identification
- Multimedia forgery detection
- Deepfake dataset creation
- Multimedia content integrity verification through intrinsic and extrinsic data
- Multimedia copyright protection through intrinsic and extrinsic data
- Anti-forensics and counter anti-forensics measures
- Disinformation detection
- Sybil nodes and sybil network detection
- Analysis of disinformation creation and distribution through social networks
- Disinformation dataset creation
- Analysis and detection of propaganda and hoaxes detection

## **Keynote Speakers**

Invited Speech 1:

Speaker: Associate Professor Anderson Rocha, University of Campinas, Brazil  
Speech Title: AI-enabled Digital Forensics

Invited Speech 2:

Speaker: Dr Pavel Korshunov, Idiap Research Institute, Switzerland  
Title: Deepfake detection: humans vs. machines.

## Organizers

Chang-Tsun Li, Deakin University, Australia  
Victor Sanchez, University of Warwick, UK  
Irene Amerini, Sapienza University of Rome, Italy  
Wei Qi Yan, Auckland University of Technology, New Zealand  
Yongjian Hu, South China University of Technology, China  
Nicolas Sidere: La Rochelle Université, France

## Program Committee

Dr Irene Amerini, Sapienza University of Rome, Italy  
Dr Ching-Chun Chang, National Institute of Informatics, Japan  
Dr Roberto Caldelli, Universitas Mercatorum, Italy  
Dr Diego Gragnaniello, University of Naples Federico II, Italy  
Dr Tanaya Guha, University of Glasgow, UK  
Dr Yongjian Hu, South China University of Technology, China  
Dr Fouad Khelifi, Northumbria University, UK  
Dr Pavel Korshunov, idiap research institute, Idiap Research Institute, Switzerland  
Dr Roberto Leyva, University of Warwick, UK  
Dr Chang-Tsun Li, Deakin University, Australia  
Dr Beibei Liu, South China University of Technology, China  
Dr Xuequan Lu, Deakin University, Australia  
Dr Son Lam Phung, University of Wollongong, Australia  
Dr Yijun Quan, University of Warwick, UK  
Dr Victor Sanchez, University of Warwick, UK  
Dr Nicolas Sidere, University of La Rochelle, France  
Dr Koksheik Wong, Monash University, Malaysia  
Dr Wei Qi Yan, Auckland University of Technology, New Zealand

## Manuscript Submission

Authors are invited to submit papers up to 6 pages plus unlimited pages for references in the IEEE format. Submissions to AI4MFDD 2022 should have no substantial overlap with any other paper submitted to ICPR 2022 or any paper already published. Papers presented AI4MFDD 2022 will appear in the IEEE Xplore digital library. Papers should follow the ICPR conference format (single-blind). Papers can be submitted using the EasyChair.

## Important Dates

Paper submission ~~Deadline: May 16th, 2022~~. **Extended to: May 30th, 2022**  
Decision to Authors: May 30th, 2022. **June 13th, 2022**  
Camera-ready papers due: ~~June 6th, 2022~~. **June 20th, 2022**  
Workshop date: TBA