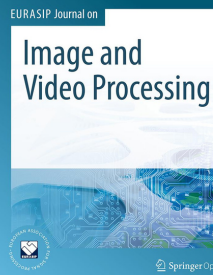




EURASIP Journal on Image and Video Processing



CALL FOR PAPERS

SPECIAL ISSUE: Manipulation Detection in Digital Images and Videos

The recent revolution in generative models has thrust upon us the imminent danger of deepfakes, which can offer unprecedented levels of increasingly realistic manipulated images and video. Even more worrying is the fact that – while in the past, video forgery was associated with a slow, painstaking process usually reserved for experts – currently, deepfake-related manipulation technologies are streamlined to be used by essentially everyone with the will to manipulate reality. Deepfakes pose an imminent security threat to us all, and to date, deepfakes are able to mislead face recognition systems, as well as humans.

This special issue will provide a forum to solicit research addressing the assessment of media integrity. In particular, the focus of this special issue will be on data-driven approaches using machine learning.

Topics of interest include but are not limited to:

- Deepfake detection approaches,
- Deepfake countermeasures including digital signatures, watermarking or other integrity mechanisms,
- Datasets for image and video manipulation,
- Detection and manipulation techniques in digital documents,
- Detection and manipulation techniques in scene images,
- Encryption in digital manipulation,
- Forensics and IoT in digital manipulation,
- Digital manipulation and adversarial attacks,
- Image and video synthesis, image and video generation and prediction,
- Accountability of forensics techniques,
- Multimedia authorship attribution,
- Social impact of Deepfakes,
- Deepfake Retrieval: retrieval from databases deep image manipulations,
- Fairness, Accountability and Transparency in ML-based Forensics Methods

Guest Editors:

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Submission deadline: 15 November 2022

Submission Instructions:

The complete manuscript should be submitted through the EURASIP Journal on Image and Video Processing submission system. To ensure that you submit to the correct special issue please select the appropriate title in the Thematic Series drop-down menu upon submission. In addition, indicate within your cover letter that you wish for your manuscript to be considered as part of the special issue. All submissions will undergo rigorous peer review and accepted articles will be published within the journal as a collection.

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