

Call for papers IEEE Transactions on Biometrics, Behavior, and Identity Science Special Issue on Face Presentation Attack Detection

Face anti-spoofing recognition is a hot and challenging research topic that has received much attention from the computer vision and pattern recognition communities in the past. Owing to the development of deep learning and big data, recent advances of the related research have gained a lot. However, it is still challenging to aim at unknown spoofing attacks, cross-domain generalizations and multi-modal fusions in images and video sequences. This special issue focuses on face anti-spoofing tasks that might benefit from novel methods such as Generative Adversarial Networks (GANs) or AutoML.

We invite paper submissions for the special issue on face anti-spoofing to be published in IEEE Transactions on Biometrics, Behavior, and Identity Science (TBIOM). We welcome original research papers making theoretical and practical substantial contributions on face anti-spoofing in connection to other computer vision and machine learning topics, including, but not limited to:

- Novel methodologies on face anti-spoofing detection in visual information systems.
- Studies on novel attacks to biometric systems, and solutions
- Meta learning for face anti-spoofing attack
- zero-shot learning for face anti-spoofing attack
- Deep learning methods for biometric authentication systems using visual information
- Novel datasets and evaluation protocols on spoofing prevention on visual and multimodal biometric systems
- Methods for deception detection from visual and multimodal information
- Face antispoof attacks dataset (3D face Mask, multimodal).
- Deep analysis reviews on face anti-spoofing attacks
- Generative models (e.g. GAN) for spoofing attacks
- AutoML for face presentation attack detection

Paper submission and review:

Authors are required to submit contributions online through the TBIOM site at,

<https://mc.manuscriptcentral.com/tbiom>

selecting the choice “FacePAD” that indicates this special issue. Peer reviewing will follow the standard rigorous TBIOM review process. Full length manuscripts are expected to follow TBIOM guidelines in <http://tbiom.ieee-biometrics.org/authorinfo.html>

Important Dates:

Paper submission deadline: December, 18th, 2020

First review decision: February, 6th, 2021

Revision deadline: March, 20th, 2021

Final decision: May, 20st, 2021

Guest editors:

Jun Wan, Institute of Automation, Chinese Academy of Sciences (CASIA), China, jun.wan@ia.ac.cn

Sergio Escalera, Universitat de Barcelona and Computer Vision Center, Spain, sergio@maia.ub.es

Hugo Jair Escalante, INAOE, Mexico and ChaLearn, Berkeley, California, hugo.jair@gmail.com

Guodong Guo, Institute of Deep Learning, Baidu Research, China, guodong.guo@mail.wvu.edu

Stan Z. Li, Westlake University, China, Stan.ZQ.Li@westlake.edu.cn