



# SOFT EDGE

## SOLUTION FOR LIVENESS VERIFICATION

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# Tweet Pitch



Solution for real-time liveness verification using AI on mobile device capable of spotting fake faces and performing anti-spoofing in face recognition systems.

# The Problem

Since most biometric attacks are spoof attempts, **Liveness Detection** is crucial step during user authentication.



# The Solution

## QUICK & PRECISE



Quick and precise real-time  
Liveness verification



## MOBILE & FLEXIBLE



MOBILE DEVICES,  
WEB APPLICATIONS &  
WEB SERVICES

## INTEGRATABLE

CoreML:swift/obj-c  
libTorch:c/c++  
OpenCV:c/c++



{ **REST:API** }

Common market  
solutions.  
Quick localization

# Under the hood

- Solution for Liveness verification based on Convolutional Neural Network that detects the image copying artifacts in real-time
- Runs on the mobile device, does not require server side support
- Detecting face, face landmarks, verifies face liveness and extracts the detection metrics: capture confidence, liveness check label and its confidence
- Integratable with company business processes and 3rd party software modules and APIs
- Training set requirements: ideally up to 1000 unique people. The collection scenes should include indoor and outdoor scenes with different lighting conditions. The data should include male and female with age distribution ranges from juvenile to the elderly, the young people and the middle aged are the majorities. Training set should also include multiple postures, multiple expressions, beards, glasses and multiple anti-spoofing samples.

# SOFT EDGE

SOFT EDGE is a top-end IT company delivering innovative solutions tailored to your business needs. Our main goal is to improve your operational processes by implementing novel technologies such as mobile applications and continuous service development to make things work "Automagically".

SOFT EDGE offers full software product development lifecycle along with industry-leading best practices in project and service management. We only participate in projects we are passionate about and can guarantee high quality outcomes. SOFT EDGE also provides IT Consulting services to keep your business up. Currently on the market SOFT EDGE offering solutions for Insure.Tech sector based on image analysis and using augmented reality for car damage analysis and capturing.

Founded in 2013 as a startup, today, SOFT EDGE is growing and winning the new clients across the EU countries. The headquarter of SOFT EDGE is currently located in Krakow, PL.

