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Forensic technology to prevent fraud premieres at CES 2019

Valida by Gradiant detects manipulations in any type of digital document within user verification and KYC processes

Gradiant's technology allows companies to offer an extra level of security in online processes and it is being presented at CES Eureka Park™ space for the first time

Gradiant's innovation in forensics technology to detect manipulation in multimedia documents premieres at the Eureka Park TM™, a specific space within the **Consumer Electronics Show (CES) 2019** where the most promising companies showcase their innovative technological solutions. From January 8th to 11th Gradiant presents at booth 52917 (Sands Expo, Level 1, Hall G) **Valida**, **a fully automatic forensic analysis tool** that detects manipulations in multimedia documents (jpeg or pdf files).

Evaluating the authenticity of digital documents to prevent fraud in online user verification, digital onboarding and Know Your Customer (KYC) processes is Valida's main goal. This technology developed by Gradiant **allows companies to offer an extra level of security** in these operations, as it automatically analyzes any type of identity document (and other digital files such as payroll, invoices, receipts, etc.) and detects possible attacks of impersonation and forgeries in the data present in these files.

Gradiant is not attending CES for the first time. In 2018, the center showcased biometric signature technology in the same space. As **Daniel González**, director of the Multimodal Information department of Gradiant, explains "being selected for the second year in a row to participate in an event of this international importance confirms the value of Gradiant's technologies, and demonstrates the real concern of companies and society for document fraud".

Valida automatically detects forgeries in digital documents

"After many years working in the multimedia security field, we have developed a tool that allows us to automatically verify in a few seconds if a document has been manipulated or not", stated González, who highlights "this is an important innovation in the current digital world, where companies carry out thousands of users and files verifications each day. Besides, it is not necessary to have the original document to detect the modifications with Valida".

Valida is an effective solution for companies in document verification processes. **This technology automatically detects digital fogeries produced in ID documents**, bills or payslips, for example. With forensic techniques based on Artificial Intelligence, our tool

analyzes the document and show the manipulated areas, through a heat map that **clearly indicates where the forgery has taken place.**

Valida **supports all types of identity documents and nationalities:** passports, identity documents, driving licences, etc. without specific adaptations. In addition, **it does not require connection to external databases** (e.g. identity document databases) to detect modifications and also warns if a document has been captured from a screen (and is therefore not a photograph taken of the original document).

Insurance companies and banking, the main target beneficiaries

Although digital onboarding processes -remote opening of financial products and services by identifying customers through the use of biometric technology for user recognition- brings great advantages for customers and businesses such as easy shopping and customer growth, **it also carries security problems** like fraud or manipulations of documents and user verifications. In addition, the advancement of technology and the democratization of multimedia publishing programs, make forgeries more and more realistic.

Insurance companies and banking, for instance, with online processes, **already need mechanisms to authenticate** and verify the thousands of ID documents they daily receive in digital processes. Valida allows companies to offer an extra level of security in such operations by analysing an ID document image and detecting spoofing attacks just in a few seconds, thus combating fraud and avoiding losses.

Expertise in technologies that provide security

Gradiant has been developing for ten years technology related to the protection and identification of different types of files to provide multimedia security in different areas, such as the authenticity of printed documents with **Signed** or the traceability of printed documentation to identify the person responsible for the custody of a document in filtration cases, with **Shadow**.

To help companies prevent fraud, Gradiant has developed **Valida**, a solution based on AI-based forensic techniques that detects any modification made to identity documents, photographs or other files. At Gradiant, we believe that the key to success in development based on forensic technology is linked to three major concepts: security, convenience and availability, so we integrate these principles in all our developments.

About Gradiant

Gradiant is private technology ICT centre focused on connectivity, intelligence and security technologies. Gradiant is an innovation provider, with over 10 years of experience on

technology incubation and more than 100 engineers, Gradiant has a footprint in 29 countries and over 230 customers.

After ten years of activity, Gradiant has quintupled the license agreements of its innovation projects in the last two years, which already reach **150 licenses in 18 countries.** Some recent public international references include Telefónica, Vodafone, Samsung, Huawei, Inditex, PSA Peugeot Citroen, NATO, Indra, Everis Babcock international, and Boeing.