IJARSCT
ISSN (Online) 2581-9429
International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)
International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal
Impact Factor: 7.301
Volume 3, Issue 1, November 2023

Signature Verification and Forgery Recognition System using KNN, Backpropagation and CNN

Abhijit Sunil Bhosale, Dhiraj Bhausaheb More, Vinayak Sudam Deore
Yash Sudam Bhandare, Ms. H. R. Agashe
Matoshri College of Engineering and Research Centre, Eklahare, Nashik, Maharashtra, India

Abstract: *Biometrics is now widely used all over the world for the identification and verification of people and their signatures. A person's handwritten signature is a unique identifying work of human that is primarily usedand recognized in banking and other financial and legal operations. Handwritten signatures, on the other hand, are becoming increasingly valuable due to their historical significance as a target of deception. The Sign Verification System (SVS) tries to determine whether a sign is genuine (created by the specified individual) or forged (produced by an impostor). Using images of scanned signatures and other documents without dynamic information about the signing process has proven difficult, especially in offline (static) situations. The use of Deep Learning algorithms to learn feature signature picture representations has been well-documented in the literature over the last five to ten years. Here, we examine how the subject has been studied throughout the lastfew decades, as well as the most recent developments and future study plans.*

Keywords: Signature Verification, KNN, CNN, Backproagation

REFERENCES

[1] Handwritten signature attributes for its verification, Anastasia Beresneva; Anna Epishkina;Darina Shingalova, 2018
[2] New Local Difference Feature for Off-Line Handwritten Signature Verification, Naouel Arab;Hassiba Nemmour;Youcef Chibani, 2019
[3] Handwritten Signature Verification System Using Sound as a Feature, Mustafa Semih Sadak;Nihan Kahraman;Umut Uludag, 2020
[4] Handwritten Signature Verification using TensorFlow, Rahul D Rai; J.S Lather, 2018
[5] Improved Multi-Scale Local Difference Features for Off-Line Handwritten Signature Verification, Naouel Arab;Hassiba Nemmour;Youcef Chibani, 2020
[6] Improved Multi-Scale Local Difference Features for Off-Line Handwritten Signature Verification, Naouel Arab;Hassiba Nemmour;Youcef Chibani, 2020
[7] Handwritten Signature Verification via Deep Sparse Coding Architecture, Dimitros Tsourounis; Ilias Theodorakopoulos; Elias N. Zois;George Economou; Spiros, 2018
[8] A handwritten signature verification method employing a tablet, Micha l Lech;Andrzej Czyzewski, 2016
[9] Angle features extraction of handwritten signatures, Osama Mohamed Elra- jubi;Idris S. El-Feghi, 2015
[10] Parallel Gpu Based Offline Signature Verification Model, Amit Kumar Kar;Saroj Kumar Chandra;Manish Kumar Bajpai, 2019