



Institutional Sign In

All



ADVANCED SEARCH

Conferences > 2023 Global Conference on Inf...

# Enhancing Image Plagiarism Detection Through Perceptual Hashing and Edge Analysis

Publisher: IEEE

[Cite This](#)

PDF

Jayanth Potluri ; Deepak Venkatesan ; Harika Gummedi ; Karthik Alladi ; G. Ramesh [All Authors](#) ...



23  
Full  
Text Views

## Alerts

[Manage Content Alerts](#)  
[Add to Citation Alerts](#)

### Abstract

Document Sections

- I. Introduction
- II. PLAGIARISM
- III. Literature Survey
- IV. Proposed System
- V. Methodology

[Show Full Outline](#)

Authors

Figures

References

Keywords

Metrics

More Like This



Downl  
PDF

#### Abstract:

In a time when digital photography is so common, the significance of preserving the integrity of visual content cannot be stressed. In this study, a novel combination of ... [View more](#)

#### Metadata

##### Abstract:

In a time when digital photography is so common, the significance of preserving the integrity of visual content cannot be stressed. In this study, a novel combination of perceptual hashing and edge analysis methodologies is used to improve picture plagiarism detection. This method's careful design is centered on the challenging problem of finding visually identical or altered photographs within the large digital environment. A useful method for identifying photocopying is perceptual hashing, which has roots in computer vision. It recovers unique image fingerprints that exhibit resilience to slight alterations. Parallel to this, we evaluate the intricate structural elements of photographs using edge detection techniques, making it simpler to discern copied content from the original source.

**Published in:** 2023 Global Conference on Information Technologies and Communications (GCITC)

**Date of Conference:** 01-03 December 2023

**DOI:** 10.1109/GCITC60406.2023.10426485

**Date Added to IEEE Xplore:** 18 April 2024

**Publisher:** IEEE

**ISBN Information:**

**Conference Location:** Bangalore, India

### Contents

I. Introduction



In today's digital era, the widespread dissemination of visual content across a multitude of media platforms has presented a significant challenge: the preservation of the authenticity of digital images. While the internet provides immediate access to a vast reservoir of information, it has simultaneously given rise to a vast sea of unorganized data [1]. As digital imagery gains increasing prominence in fields such as academia, journalism, advertising, and creative pursuits, the risk of image-based plagiarism has surged in parallel. Plagiarism, characterized by the unauthorized replication and reuse of information, has become an endemic issue, largely facilitated by the effortless accessibility of information on the internet [1]. This issue transcends the confines of academia and permeates numerous sectors, including media, scientific research, and political discourse [2].

Authors	▼
Figures	▼
References	▼
Keywords	▼
Metrics	▼

#### More Like This

Digital image edge detection based on LVQ neural network  
 2016 IEEE 11th Conference on Industrial Electronics and Applications (ICIEA)  
 Published: 2016

A Hybrid Technique for Digital Image Edge Detection by Combining Second Order Derivative Techniques Log and Canny  
 2nd International Conference on Data, Engineering and Applications (IDEA)  
 Published: 2020

Show More

**IEEE Personal Account**

CHANGE  
USERNAME/PASSWORD

**Purchase Details**

PAYMENT OPTIONS  
VIEW PURCHASED  
DOCUMENTS

**Profile Information**

COMMUNICATIONS  
PREFERENCES  
PROFESSION AND  
EDUCATION  
TECHNICAL INTERESTS

**Need Help?**

US & CANADA: +1 800  
678 4333  
WORLDWIDE: +1 732  
981 0060  
CONTACT & SUPPORT

**Follow**



[About IEEE Xplore](#) | [Contact Us](#) | [Help](#) | [Accessibility](#) | [Terms of Use](#) | [Nondiscrimination Policy](#) | [IEEE Ethics Reporting](#) | [Sitemap](#) | [IEEE Privacy Policy](#)

A not-for-profit organization, IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity.

© Copyright 2024 IEEE - All rights reserved, including rights for text and data mining and training of artificial intelligence and similar technologies.

**IEEE Account**

- » [Change Username/Password](#)
- » [Update Address](#)

**Purchase Details**

- » [Payment Options](#)
- » [Order History](#)
- » [View Purchased Documents](#)

**Profile Information**

- » [Communications Preferences](#)
- » [Profession and Education](#)
- » [Technical Interests](#)

**Need Help?**

- » **US & Canada:** +1 800 678 4333
- » **Worldwide:** +1 732 981 0060

» [Contact & Support](#)

[About IEEE Xplore](#) | [Contact Us](#) | [Help](#) | [Accessibility](#) | [Terms of Use](#) | [Nondiscrimination Policy](#) | [Sitemap](#) | [Privacy & Opting Out of Cookies](#)

A not-for-profit organization, IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity.

© Copyright 2024 IEEE - All rights reserved. Use of this web site signifies your agreement to the terms and conditions.