Register Login

DESIGN ENGINEERING

HOME CURRENT ABOUT US ARCHIVES CONTACT ABOUT
Search

HOME / ARCHIVES / VOL 2021: ISSUE 06 / Articles

A New Method For Implementation Of Edge Detection Based On Proposed Bcfgst With Svm Classification

M.Jansirani, Dr.P.Sumitra

Keywords: Robert edge detector, Prewitt edge detector, Sobel edge detector, Canny edge detector, Filtering, Gradient, Classification and Multi-level Thresholding

ABSTRACT

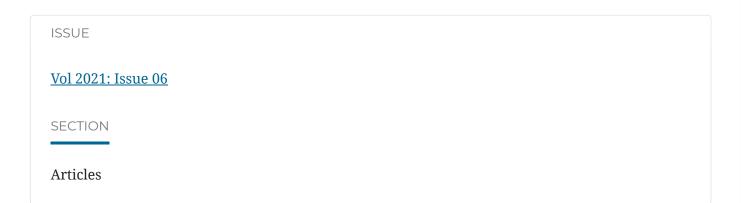
In photograph processing, system vision, and laptop vision, edge detection is a crucial tool, particularly in the domains of feature detection and characteristic extraction. It's also one of the most significant aspects of image processing, especially when determining image quality. Sobel, Prewittt, Canny, Laplacian of Gaussian (LOG), Robertss, and Zero-Crossing are examples of common edge detection algorithms. To find edges in photos, the Canny operator is commonly employed. However, as the size of the image dataset grows larger, the canny operator's overall edge detection performance suffers, and its runtime becomes excessive. The main disadvantage of the canny part detector is that it takes a long time to compute due to its sophisticated processing. In order to overcome these issues, this work proposes a new method for handling component detection. In this research, we present a BCFGST in Face pictures with an SVM (Support Vector Machine) Classifier. First, the damaged area is found using BCFGST's component detection approach, and then functions are retrieved. When comparing Canny Edge Detection with SVM to BCFGST, the SVM approach provides superior face recognition data.



HOW TO CITE

M.Jansirani, Dr.P.Sumitra. (2021). A New Method For Implementation Of Edge Detection Based On Proposed Bcfgst With Svm Classification. *Design Engineering*, 4636-4660. Retrieved from http://www.thedesignengineering.com/index.php/DE/article/view/3855

More Citation Formats



MAKE A SUBMISSION

CONTACT US

Editorial Office of Design Engineering.

Address: 4143 Danforth Avenue Toronto, ON M4K 1A6.

Email: editor@thedesignengineering.com

Downloads

Paper Template Download

Information and Guidelines

• Author Guidelines

- Competing Interest Statement
- Copyright Notice
- Publication and Peer Review Processes
- Published Statement of Human and Animal Rights guidelines
- · Published Statement of Informed Consent

Subscribe

Journal print copy or article reprints are available for order, please contact: editor@thedesignengineering.com

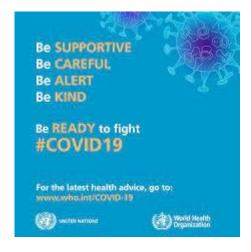
Online Access

This is a fully open access journal, the full texts (in HTML and PDF) of all articles can be viewed online for free immediately after publishing.

Permission

For permission, please contact the editorial office directly:

Email: editor@thedesignengineering.com



SUBSCRIPTION

Login to access subscriber-only resources.

INFORMATION

For Readers

For Authors

For Librarians