Advanced Computer Vision Change Detection Report

Executive Summary

The Advanced Computer Vision method processed satellite imagery and detected 809,913 pixels of change across 1 distinct regions, representing 92.72% of the total image area. Processing completed in 0.059 seconds. The average confidence score for detected changes was 0.155.

Method Description

This method employs sophisticated computer vision algorithms including adaptive thresholding, multi-scale analysis, and advanced morphological operations. It uses edge detection, feature matching, and statistical analysis to improve change detection accuracy. The method includes noise reduction techniques and region growing algorithms to better handle complex change patterns and varying lighting conditions.

Results Summary

Metric	Value
Total Change Pixels	809,913
Number of Change Regions	1
Total Change Area	809913.00 sq units
Processing Time	0.059 seconds
Image Dimensions	1024 x 853
Average Confidence	0.155

Change Statistics

Region Size Analysis:

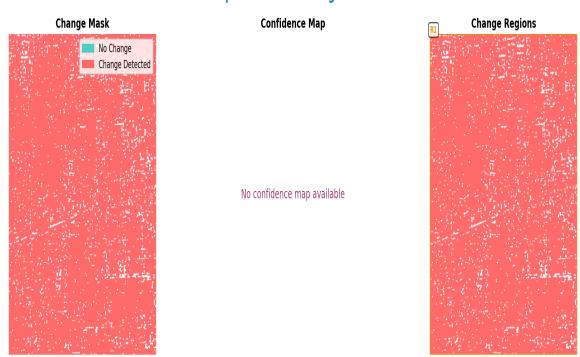
Largest region: 809,913 pixels
Smallest region: 809,913 pixels
Average region size: 809,913 pixels
Median region size: 809,913 pixels

Technical Details

Parameter	Value
Implementation	Advanced Computer Vision
Version	1.0
Timestamp	2025-08-24 20:13:47
Input Image 1	lv2010.png
Input Image 2	lv2022.png
scales	[1.0, 0.5, 0.25]
threshold_method	adaptive
morphology_kernel	(5, 5)
min_area	100

Visualizations

Advanced Computer Vision - Change Detection Results



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