



Difference Operator - USE

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Difference Operator is an edge detector

Difference Operator

- ▶ The operator performs the difference between a pixel and its surroundings.
- ▶ The maximum absolute difference in the 3x3 patch is the new value.

1	2	3
4	5	6
7	8	9

max of {

5 - 1	5 - 2	5 - 3
5 - 4	5 - 6	5 - 7
5 - 8	5 - 9	

} = 4

Use Cases

It is a fundamental tool in image processing and computer vision.

Feature detection and feature extraction.