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# Enhancement Of Underwater Images A Review Ijcsit

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*Enhancing underwater  
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fusion- IEEE CVPR*

2012 This researcher  
created an algorithm  
that removes the water  
from underwater images

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Hours! **Hidden**

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UHD 10 hours - Earth

from Space \u0026

Space Wind Audio -

relaxing, meditation,

nature *I found the*

*LIGHTNING TRIDENT*

*in Minecraft! - Part 24*

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Edition | MCPE | MCBE  
"Remove Water From  
Underwater Images"  
With Camera Settings

#47 Joji's Journal

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Shepelev Denis

Alexandrovich - The  
problem of underwater  
images modeling based  
on terrestrial ones

*Camouflaged Object*

*Detection* **UNDER**

**THE SEA: Hypnotic**

**Sleep Story and**

**Meditation for Grown**

**Ups Enhancement Of**

**Underwater Images A**

Sharpening filter is used

to enhance the edges



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and fine details of the underwater images.

These details are consists of high

frequency components and enhancing the high frequency components of an image enhances the visual quality of the image. The sharpened image of input white-balanced image is as shown in the fig.4.

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Enhancement of  
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A hazy image formation model is widely used to restore the image quality. It depends on two optical parameters: the background light (BL) and the transmission map (TM). Underwater images can also be enhanced by color and contrast

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correction from the  
perspective of image  
processing.

Enhancement of  
Underwater Images  
With Statistical Model  
of ...

enhance visibility of  
such images. An input  
underwater image is  
processed for deriving  
two images from  
Gamma Correction and

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sharpening filter. The associated weight maps are then computed and merged together using Gaussian and Laplacian pyramids. Patch-based Contrast Quality Index (PCQI) and Underwater

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nant in the underwater  
ambience which is

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known as color cast. For further processing of the image, enhancement remains an essential preprocessing operation. Color equalization is a widely adopted approach for underwater image enhancement. Traditional methods normally involve blind color equalization for enhancing the image under test.

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Enhancement

Real-time underwater  
image enhancement: An  
improved ...

Underwater images are enhanced and/or restored mainly by two kinds of algorithms and/or techniques which include image-based methods and physics-based methods.

Enhancement of

*Page 14/33*

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Underwater Images with  
Statistical Model of ...

The underwater images are enhanced through haze removal algorithm by dark channel prior technique. It shows a good result by reducing haze and noise effect still, it has a tendency to darken the image in some situation. CLAHE on RGB model has been followed in our

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approach to change the level of contrast and intensity of dehaze image.

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Underwater Image

Enhancement - ethesis

Marques et al, L2UWE:

A Framework for the Efficient Enhancement of Low-Light

Underwater Images

Using Local Contrast and Multi-Scale Fusion.



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Islam et al, Fast  
Underwater Image  
Enhancement for  
Improved Visual  
Perception. 2019.

Anwar et al, Diving  
Deeper into Underwater  
Image Enhancement: A  
Survey.

[GitHub - cxtalk/Awesome-Underwater-Image-Enhancement: A ...](#)

based on color

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correction and  
underwater image  
dehazing for underwater  
image enhancement was  
proposed in [11], which  
corrects the color casts  
of underwater image  
using image color prior  
and improves the  
visibility by a modified  
image dehazing  
algorithm. This method  
shows limitations when  
the image color prior is

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not available. [12]

proposed an underwater

Deep Underwater Image

Enhancement - arXiv

Underwater images are characterized by poor contrast, color cast, noise and haze. These images need to be pre-processed so as to get some information. In this paper, a novel technique named Fusion

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of Underwater Image Enhancement and Restoration (FUIER) has been proposed which enhances as well as restores underwater images with a target to act on all major issues in underwater images, i.e. color cast removal, contrast enhancement and dehazing.

Fusion of Underwater

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Image Enhancement and  
Restoration ...

In this paper, a novel technique named Fusion of Underwater Image Enhancement and Restoration (FUIER) has been proposed which enhances as well as restores underwater images with a target to act on...

(PDF) Fusion of

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Underwater Image  
Enhancement and  
Restoration

Abstract: Underwater image enhancement has been attracting much attention due to its significance in marine engineering and aquatic robotics. Numerous underwater image enhancement algorithms have been proposed in the last few years.

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However, these algorithms are mainly evaluated using either synthetic datasets or few selected real-world images.

An Underwater Image  
Enhancement  
Benchmark Dataset and

...

Another line of enhancement tries to process underwater

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images based on the simplified Retinex model. In, a variational Retinex-based method is proposed for underwater image enhancement.

This method contains three steps, i.e., color correction, layer decomposition and post-enhancement.

Underwater image enhancement with

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global--local networks

of Underwater

This underwater image degradation model has

been widely used in

traditional underwater image restoration

methods and can be

expressed as: (1)  $U(x)$

$= I(x) \cdot T(x) + B \cdot$

$(1 - T(x))$ , where  $U(x)$

$(x)$  is the captured

underwater image;  $I(x)$

is the clear latent

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image, also called as the scene radiance, that we aim to recover;  $B(\lambda)$  is the homogeneous global background light;  $\lambda$  is the wavelength of the light for the red, green and blue channels; and  $x$  is a point in the ...

Underwater scene prior inspired deep underwater image and ...

A hazy image formation

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model is widely used to restore the image quality. It depends on two optical parameters: the background light (BL) and the transmission map (TM). Underwater images can also...

Enhancement of  
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Underwater images can also be enhanced by color and contrast correction from the perspective of image processing. In this paper, we propose an effective underwater image enhancement method for underwater images in composition of underwater image restoration and color correction.

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Enhancement

[GitHub - wangyanckxx/  
Enhancement-of-Under  
water-Images-A](#)  
[water-Images-with ...](#)

Color Balance and  
Fusion for Underwater  
Image Enhancement

Abstract: We introduce  
an effective technique to  
enhance the images  
captured underwater and  
degraded due to the  
medium scattering and  
absorption. Our method

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is a single image approach that does not require specialized hardware or knowledge about the underwater conditions or scene structure.

Color Balance and  
Fusion for Underwater  
Image Enhancement ...

For the past several years, the attention of more and more scholars

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was drawn to the field of underwater images enhancement and restoration. As a result of scattering and absorption, underwater images always suffer from the problems of low contrast, blur, and color distortion.

Restoration and  
Enhancement of  
Underwater Images

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Based on ...

Light scattering and color change are two major sources of distortion for underwater photography. Light scattering is caused by light incident on objects reflected and deflected multiple times by particles present in the water before reaching the camera. This in turn



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Enhancement  
Of Underwater  
Images A  
Review Ijcsit  
lowers the visibility and  
contrast of the image  
captured.

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