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Enhancement Of Underwater Images

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Sharpening filter is used to enhance the edges 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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enhance visibility of such images. An input underwater image is processed for deriving two images from Gamma Correction and 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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Enhancement of Underwater Images - ijert.org

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 Underwater Images with Statistical

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Marques et al, L2UWE:
A Framework for the
Efficient Enhancement
of Low-Light
Underwater Images
Using Local Contrast
and Multi-Scale Fusion.

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

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

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Survey.

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GitHub - cxtalk/Awesome-Underwater-Image-Enhancement: A
...

Acquisition of clear underwater images is of great importance for ocean engineering and ocean research where autonomous and remotely operated underwater vehicles are widely used to explore and interact with marine

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environments.

However, raw
underwater images
seldom meet the
expecta- tions
concerning image
visual quality.

Deep Underwater Image Enhancement - arXiv

AnRGBYCbCrProcessin
g method (RYPro) is
proposed for
underwater images
commonly suffer- ing
from low contrast and

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poor color quality. The degradation in image quality may be attributed to absorption and backscattering of light by suspended underwater particles.

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

The underwater images are enhanced through haze removal algorithm by dark

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

Underwater Image Enhancement -

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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 of Underwater Image Enhancement and Restoration (FUIER) has been proposed which enhances as well as restores underwater

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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 Image Enhancement and Restoration ...

A hazed image formation model is widely used to restore the image quality. It depends on two optical parameters; the

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background light (BL) and the transmission map (TM). Underwater images can also be enhanced by color and contrast correction from the perspective of image processing.

GitHub - wangyanckxx/Enhancement-of-Underwater-Images-with ...

Abstract: Underwater image enhancement has been attracting much attention due to

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its significance in marine engineering and aquatic robotics. Numerous underwater image enhancement algorithms have been proposed in the last few years. However, these algorithms are mainly evaluated using either synthetic datasets or few selected real-world images.

An Underwater Image Enhancement

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Enhancement of underwater images has gained a leap as, underwater images are degraded due to light attenuation, back-scattering and distortion of light.

Different techniques have been proposed to improve the quality of underwater images, right from simple color correction to deep learning methods.

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Framework for Underwater Image Enhancement - ScienceDirect

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...

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**Underwater Images
With Statistical
Model of ...**

As a result the
underwater images
appear bluish or
greenish in color.
Towards this, we
propose a framework
for enhancement of
underwater images
using color balance
and Laplacian and
Gaussian fusion...

**(PDF) Framework for
Underwater Image**

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Another line of enhancement tries to process underwater 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.

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Underwater image enhancement with global--local networks ...

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 correction from the perspective of

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image processing.
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With Statistical
Model of ...**

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 is a single

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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 ...

Underwater image enhancement by wavelength compensation and dehazing. Light

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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.

**Underwater image
enhancement by
wavelength**

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

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Underwater Images Based on...

Due to the absorption and scattering effects of the water, underwater images tend to suffer from many severe problems, such as low contrast, grayed out colors and blurring content. To improve the visual quality of underwater images, we proposed a novel enhancement model, which is a trainable end-to-end

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neural model.
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